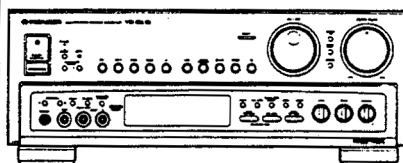


Service Manual

PIONEER®
The Art of Entertainment



The illustration shows model VSX-D903S

ORDER NO.
ARP2851

AUDIO/VIDEO STEREO RECEIVER

VSX-D903S

VSX-D933S

VSX-53

VSX-D703S

VSX-D603S

VSX-D613S

VSX-D633S

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model							Power Requirement	The voltage can be converted by the following method.
	VSX-D903S	VSX-D933S	VSX-53	VSX-D703S	VSX-D603S	VSX-D613S	VSX-D633S		
KU	○	—	—	○	○	—	—	AC 120V	—
KC	○	—	—	—	—	○	—	AC 120V	—
KU/CA	—	—	○	—	—	—	—	AC 120V	—
SD	○	—	—	—	○	—	—	AC 110V/120-127V/220V/240V	With the voltage selector
HL	—	○	—	—	—	—	○	AC 220-230V	AC 240V, *

* : Alter the wiring of the Power-supply block at the primary winding of Power transformer referring to the "Line Voltage Selection" described in Service Manual.

- For the following : VSX-D903S/KC and SD ; VSX-D933S/HL ; VSX-D603S/SD ; VSX-D613S/KC ; VSX-D633S/HL, refer to page 111.

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1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).

When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols  (fast operating fuse) and/or  (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible  (fusible de type rapide) et/ou  (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

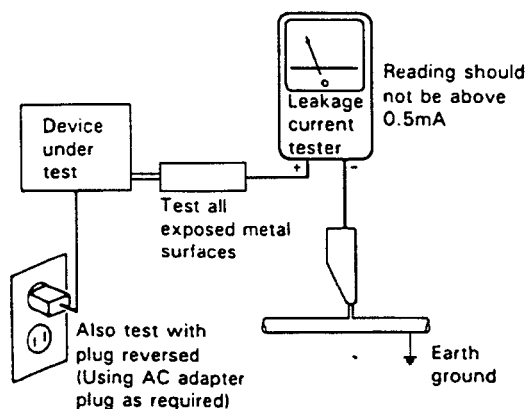
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a Δ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

WARNING!

Lithium batteries. Danger of explosion. Replacement must be done by qualified personnel and only by following the instructions given in the service manual.

This warning is stated on the product or in the operating instructions. When replacing the lithium batteries, follow the note below.

Dispose of the used battery promptly. Keep away from children. Do not disassemble and do not dispose of in fire. The battery used in this device may present a fire or chemical hazard if mistreated. Do not recharge, disassemble, heat above 100°C or incinerate. Replace only with the same Part Number. Use of another battery may present a risk of fire or explosion.

Note: The lithium battery installation position is shown in the exploded view and the P.C. board pattern.

ADVARSEL!

Lithiumbatteri — Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Lever det brugte batteri tilbage til leverandøren.

Denne advarsel er angivet på produktet eller i brugsvejledningen. Ved udskiftning af lithium batterierne følges nedenstående anvisning.

Batterierne må kun udskiftes med batterier af samme type og mærke.

VARNING!

Explosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruktion.

Denna varning finns på apparaten eller i bruksanvisningen. Följ nedanstående anvisningar vid byte av litiumbatterier. Batterierna får endast bytas ut mot litiumbatterier av samma typ och fabrikat.

2. DISASSEMBLY

• Operation Check Procedure of POWER AMP ASSY

1. (This step is only performed for VSX - D903S and VSX - D933S.)
Remove the shield case A for GUI assy and SR & S. TERMINAL assy. Move it toward the left side of the set with lead wires. (five screws and a rivet.)
2. Remove five binders (① - ⑤) in the position where the surrounding radiator.
3. Remove a lead ④ of thermistor which soldering the CONNECTION assy.
4. Remove four screws to remove the radiator and four screws to remove the POWER AMP assy.
5. Stand the radiator with the POWER AMP assy on the chassis by setting the fan motor side toward the under, and perform the POWER AMP assy check.

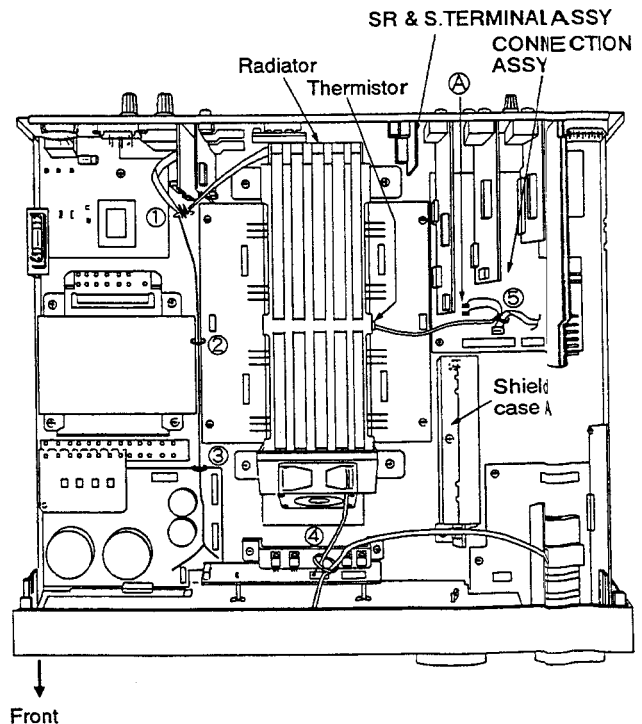


Fig. 1

3. EXPLODED VIEWS, PACKING AND PARTS LIST

NOTES:

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

● **Parts List**
(For VSX-D703S/KU and VSX-D603S/KU)

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
NSP	1	TUNER ASSY	AWZ1140	Δ	35	FU1 FUSE(10A, 125V)	AEK1035
	2	POWER AMP ASSY	AWZ5402	Δ	36	AC POWER CORD	ADG1146
	3	PRIM ASSY	AWZ5405		37	J2 FLEXIBLE CABLE	ADD1134
NSP	4	TRANS ASSY	AWZ5406		38	J1 FLEXIBLE FLAT CABLE	ADD1136
NSP	5	FRONT SP ASSY	AWZ5413	NSP	39	J3 SHIELD WIRE 5P (VSX-D703S ONLY)	ADX2096
NSP	6	R. C. SP ASSY	AWZ5414				
	7	REG ASSY	AWZ5415	Δ	40	FAN MOTOR	AXM1022
	8	POWER SUPPLY ASSY	AWZ5437	NSP	41	CHASSIS(MTL)	ANA1480
NSP	9	R. C. MUTE ASSY	AWZ5707		42	REAR PANEL (VSX-D703S)	ANC2195
	10	VOL ASSY	AWZ5421		42	REAR PANEL (VSX-D603S)	ANC2193
				NSP	43	RADIATOR(AL)	ANH1494
	11	AUDIO FUNCTION ASSY	AWZ5422				
	12	A/V FUNCTION ASSY (VSX-D703S)	AWZ5423		44	FOOT ASSY	AMR2414
	12	A/V FUNCTION ASSY (VSX-D603S)	AWZ5429		45	VOLUME HOLDER(MTL)	ANG1902
					46	L STYLE HOLDER(MTL)	ANG1903
					47	NYLON BINDER	AEC-093
	13	VIDEO FUNCTION ASSY (VSX-D703S)	AWZ5424	NSP	48	PCB HOLDER	AEC1097
	13	VIDEO FUNCTION ASSY (VSX-D603S)	AWZ5430				
	14	CONNECTION ASSY (VSX-D703S)	AWZ5425	Δ	49	PCB HOLDER	AEC1534
					50	WIRE CLIP (VSX-D703S ONLY)	AEC1535
					51	MICA SHEET	AEE1014
					52	AC CORD STOPPER	AEP-113
					53	BINDER	AEP-215
	14	CONNECTION ASSY (VSX-D603S)	AWZ5428		54	RIVET(PLASTIC)	AMR1066
	15	TONE ASSY	AWZ5426	NSP	55	PCB MOULD	AMR1525
	16	SR ASSY	AWZ5433		56	FAN HOLDER (PLS)	AMR2638
NSP	17	F. MUTE ASSY	AWZ5708	NSP	57	PCB SUPPORT	AEC1013
					58	65 LABEL	ORW1069
NSP	18	F. VIDEO ASSY (VSX-D703S ONLY)	AWZ5435		59	SCREW	ABA-298
	19	FL U-COM ASSY (VSX-D703S)	AWZ5605		60	SCREW	ABA1009
	19	FL U-COM ASSY (VSX-D603S)	AWZ5436		61	SCREW	ABA1018
					62	SCREW	ABA1053
					63	SCREW	ABA1082
	20	PROLOGIC-SFC MODULE	AXQ1024		64	SCREW	BPZ26P080FMC
	21	.....			65	SCREW	BPZ30P350FZK
	22	.....			66	SCREW	FBT40P060FZK
	23	.....			67	SCREW	VMZ30P060FCU
Δ	24	Q4 TRANSISTOR	2SA1302		68	CENTER PANEL (VSX-D703S)	AAK2570
Δ	25	Q6 TRANSISTOR	2SA1302		68	CENTER PANEL (VSX-D603S)	AAK2571
Δ	26	Q7 TRANSISTOR	2SC3181N		69	DISPLAY PANEL (VSX-D703S)	AAK2573
Δ	27	Q1 TRANSISTOR	2SC3281		69	DISPLAY PANEL (VSX-D603S)	AAK2572
Δ	28	Q2 TRANSISTOR	2SC3281		70	IR FILTER (PLS)	AAK2575
Δ	29	Q5 TRANSISTOR	2SC3281		71	NAME PLATE (METAL)	AAM1058
Δ	30	Q8 TRANSISTOR	2SA1264N		72	LED LENS (ABS)	PNW2019
Δ	31	Q3 TRANSISTOR	2SA1302		73	JOG DIAL (PLS)	AAB2224
	32	TERMINAL SCREW	AKE-031		74	VOLUME KNOB (PLS)	AAB2225
Δ	33	FU5, FU6 FUSE(1. 6A, 125V)	AEK-121		75	ROUND KNOB (PLS)	AAB2226
Δ	34	FU3, FU4 FUSE(4A, 125V)	AEK-125		76	FUNCTION BUTTON (PLS)	AAD2470

**VSX - D903S, VSX - D933S, VSX - 53, VSX - D703S,
VSX - D603S, VSX - D613S, VSX - D633S**

**• Parts List
(For VSX-D903S/KU and VSX-53/KU/CA)**

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	77	SELF LIGHT BUTTON B(PLS)	AAD2472	NSP	1	TUNER ASSY	AWZ1140
	78	MUTE BUTTON(PLS)	AAD4047		2	POWER AMP ASSY	AWZ5402
	79	ASC BUTTON(PLS)	AAD4049		3	PRIM ASSY	AWZ5405
	80	TX BUTTON(PLS)	AAD4050	NSP	4	TRANS ASSY	AWZ5406
	81	SP BUTTON(PLS) (VSX-D703S ONLY)	AAD4051	NSP	5	FRONT SP ASSY	AWZ5407
				NSP	6	R. C. SP ASSY	AWZ5408
	82	POWER BUTTON(PLS)	AAD4052		7	REG ASSY(VSX-D903S)	AWZ5403
	83	OPERATING INSTRUCTIONS (ENGLISH) (VSX-D703S)	ARB1478		7	REG ASSY(VSX-53)	AWZ5621
	83	OPERATING INSTRUCTIONS (ENGLISH) (VSX-D603S)	ARB1477		8	POWER SUPPLY ASSY	AWZ5404
				NSP	9	R. C. MUTE ASSY	AWZ5707
					10	VOL ASSY	AWZ5421
NSP	84	GUI MODE BUTTON (VSX-D603S ONLY)	AAD4053		11	AUDIO FUNCTION ASSY (VSX-D903S)	AWZ5416
	85	REMOTE CONTROL UNIT (CU-VSX080) (VSX-D703S)	AXD1393		11	AUDIO FUNCTION ASSY (VSX-53)	AWZ5728
	85	REMOTE CONTROL UNIT (CU-VSX084) (VSX-D603S)	AXD1385		12	A/V FUNCTION ASSY	AWZ5417
					13	VIDEO FUNCTION ASSY (VSX-D903S)	AWZ5418
	86	FM ANTENNA	ADH1004		13	VIDEO FUNCTION ASSY (VSX-53)	AWZ5431
NSP	87	ALKALINE(LR6, AA) (VSX-D703S)	AEX1007		14	CONNECTION ASSY(VSX-D903S)	AWZ5419
NSP	88	ALKALINE(LR03, AAA) (VSX-D603S)	AEX1006		14	CONNECTION ASSY(VSX-53)	AWZ5432
	89	FRONT PAD(PS)	AHA2005		15	TONE ASSY(VSX-D903S)	AWZ5420
	90	REAR PAD(PS)	AHA2006		15	TONE ASSY(VSX-53)	AWZ5426
	91	PACKING CASE(VSX-D703S)	AHD2756		16	• • • • •	
	91	PACKING CASE(VSX-D603S)	AHD2753				
	92	PACKING SHEET	AHG1021	NSP	17	F. MUTE ASSY	AWZ5708
				NSP	18	F. VIDEO ASSY	AWZ5435
	93	BONNET CASE(MTL)	ANE1525		19	FL U-COM ASSY(VSX-D903S)	AWZ5434
	94	BATTERY COVER(VSX-D703S)	AZN2091		19	FL U-COM ASSY(VSX-53)	AWZ5438
	94	BATTERY COVER(VSX-D603S)	AZN2256		20	PROLOGIC-SFC MODULE	AXQ1029
	95	FRONT PANEL(VSX-D703S)	AMB2489				
	95	FRONT PANEL(VSX-D603S)	AMB2488	NSP	21	SW ASSY	AWZ5412
				NSP	22	SR & S. TERMINAL ASSY (VSX-D903S)	AWQ1024
						SR & S. TERMINAL ASSY (VSX-53)	AWQ1026
△	96	TH1 THERMISTOR	NTH2218F	NSP	22		
△	97	T1 POWER TRANSFORMER	ATS1545				
NSP	98	CUT OFF RAYS SEAT	AED1160		23	GUI ASSY(VSX-D903S ONLY)	AWQ1025
	99	SCREW	ABA1009	△	24	Q4 TRANSISTOR	2SA1302
	100	LOOP ANTENNA ASSY	ATB1005	△	25	Q6 TRANSISTOR	2SA1302
				△	26	Q7 TRANSISTOR	2SC3181N
				△	27	Q1 TRANSISTOR	2SC3281
				△	28	Q2 TRANSISTOR	2SC3281
				△	29	Q5 TRANSISTOR	2SC3281
				△	30	Q8 TRANSISTOR	2SA1264N
				△	31	Q3 TRANSISTOR	2SA1302
					32	TERMINAL SCREW	AKE-031
				△	33	FU5, FU6(1. 6A, 125V)	AEK-121
				△	34	FU3, FU4(4A, 125V)	AEK-125
				△	35	FU1(10A, 125V)	AEK1035
				△	36	AC POWER CORD	ADG1146
					37	J2 FLEXIBLE CABLE	ADD1134
					38	J1 FLEXIBLE FLAT CABLE	ADD1136
				NSP	39	J3 SHIELD WIRE 5P	ADX2096
				△	40	FAN MOTOR	AXM1022
				NSP	41	CHASSIS(MTL)	ANA1480
					42	REAR PANEL(MTL) (VSX-D903S)	ANC2197

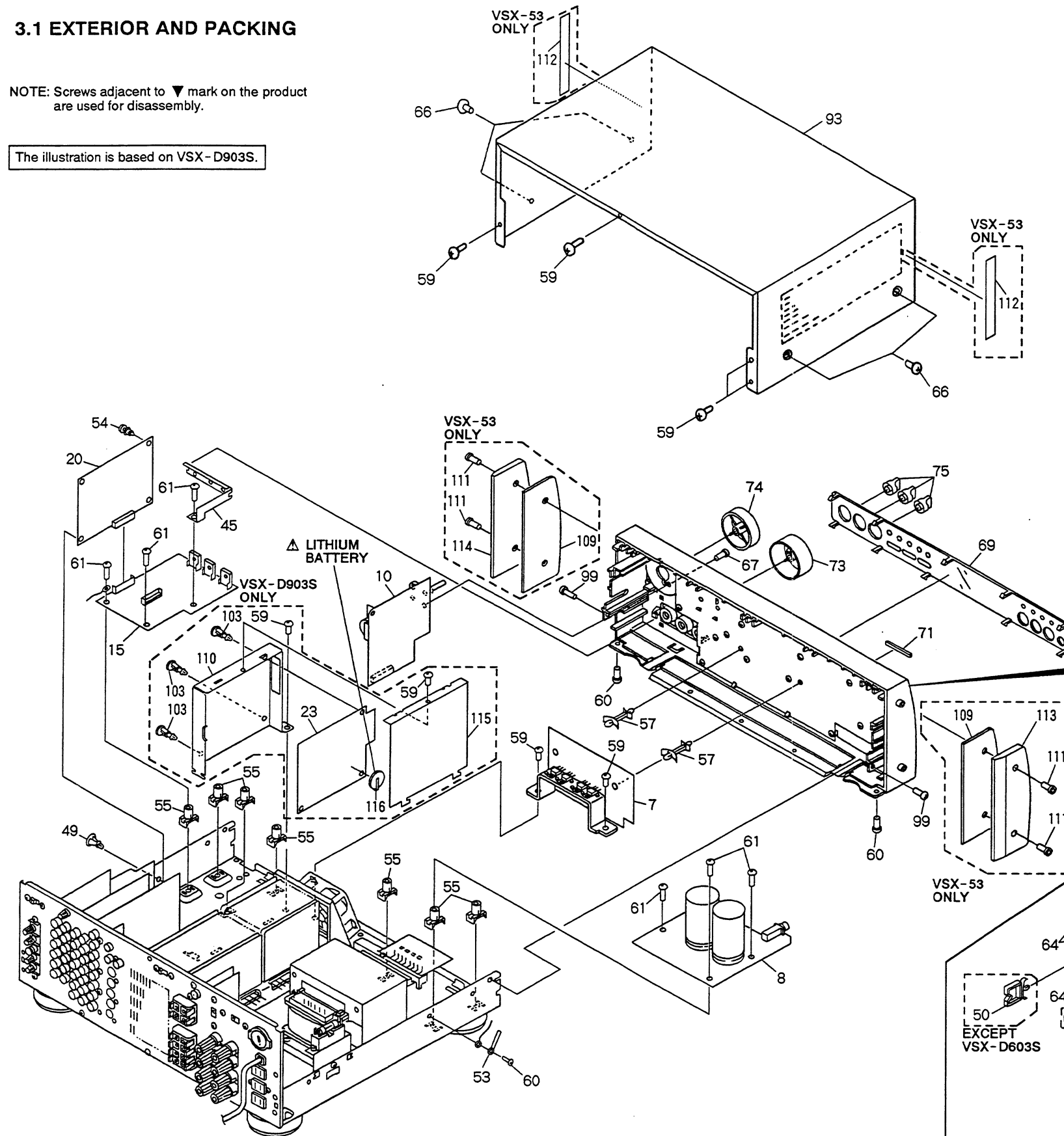
**VSX - D903S, VSX - D933S, VSX - 53, VSX - D703S,
VSX - D603S, VSX - D613S, VSX - D633S**

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
NSP	42	REAR PANEL(MTL) (VSX-53)	ANC2239		89	FRONT PAD(PS) (VSX-D903S)	AHA2005
	43	RADIATOR(AL)	ANH1494		89	FRONT PAD(PS) (VSX-53)	AHA2013
	44	FOOT ASSY	AMR2414		90	REAR PAD(PS) (VSX-D903S)	AHA2006
	45	VOLUME HOLDER(MTL)	ANG1902		90	REAR PAD(PS) (VSX-53)	AHA2014
	46	L STYLE HOLDER(MTL)	ANG1903		91	PACKING CASE(VSX-D903S)	AHD2766
NSP	47	NYLON BINDER	AEC-093		91	PACKING CASE(VSX-53)	AHD2769
	48	PCB HOLDER	AEC1097		92	PACKING SHEET	AHG1021
	49	PCB HOLDER	AEC1534		93	BONNET CASE(MTL)	ANE1525
NSP	50	WIRE CLIP	AEC1535		94	BATTERY COVER	AZN2091
	51	MICA SHEET	AEE1014		95	FRONT PANEL(PLS) (VSX-D903S)	AMB2492
△	52	AC CORD STOPPER	AEP-113		95	FRONT PANEL(PLS) (VSX-53)	AMB2490
	53	BINDER	AEP-215		96	TH1 THERMISTOR	NTH2218F
	54	RIVET(PLASTIC)	AMR1066	△	97	T1 POWER TRANSFORMER	ATS1545
	55	PCB MOULD	AMR1525	△	98	CUT OFF RAYS SEAT	AED1160
NSP	56	FAN HOLDER(PLS)	AMR2638	NSP	99	SCREW(VSX-D903S)	ABA1009
	57	PCB SUPPORT	AEC1013		99	SCREW(VSX-53)	ABA1011
NSP	58	65 LABEL	ORW1069		100	LOOP ANTENNA ASSY	ATB1005
	59	SCREW	ABA-298		101	TUNER CASE(MTL) (VSX-D903S ONLY)	ANK1217
	60	SCREW(STEEL)	ABA1009	NSP	102	SPACER	AEC1288
	61	SCREW	ABA1018		103	SPACER(VSX-D903S ONLY)	AEC1360
	62	SCREW(STEEL)	ABA1053	NSP	104	R1 RESISTOR	ACN1111
	63	SCREW	ABA1082	△	105	INSULATING PLATE	AMR2672
	64	SCREW	BPZ26P080FMC		106	SCREW	VMZ26P040FZK
	65	SCREW	BPZ30P350FZK		107	ESCUTCHEON(VSX-D903S ONLY)	AAK2585
	66	SCREW(STEEL)	FBT40P060FZK		108	SELF-LIGHT RING (VSX-D903S ONLY)	AAK2586
	67	SCREW	VMZ30P060FCU		109	SIDE PLATE(RUB) (VSX-53 ONLY)	AAP1479
NSP	68	CENTER PANEL(PLS)	AAK2570		110	SHIELD CASE A(MTL) (VSX-D903S ONLY)	ANG1926
	69	DISPLAY PANEL(PLS) (VSX-D903S)	AAK2574		111	SCREW(VSX-53 ONLY)	ABA1148
	69	DISPLAY PANEL(PLS) (VSX-53)	AAK2576		112	SPACER(VSX-53 ONLY)	AEC1430
	70	IR FILTER(PLS)	AAK2575		113	SIDE PANEL L(PLS) (VSX-53 ONLY)	AMR2661
	71	NAME PLATE(METAL)	AAM1058		114	SIDE PANEL R(PLS) (VSX-53 ONLY)	AMR2662
	72	LED LENS	PNW2019		115	SHIELD CASE B(MTL) (VSX-D903S ONLY)	ANG1927
	73	JOG DIAL(PLS)	AAB2224	NSP	116	LITHIUM BATTERY (VSX-D903S ONLY)	AEX1020
	74	VOLUME KNOB(PLS)	AAB2225	△			
	75	ROUND KNOB	AAB2226				
	76	FUNCTION BUTTON	AAD2470				
NSP	77	SELF LIGHT BUTTON B	AAD2472				
	78	MUTE BUTTON(PLS)	AAD4047				
	79	ASC BUTTON(PLS)	AAD4049				
	80	TX BUTTON(PLS)	AAD4050				
	81	SP BUTTON(PLS)	AAD4051				
	82	POWER BUTTON(PLS)	AAD4052				
	83	OPERATING INSTRUCTIONS (ENGLISH) (VSX-D903S)	ARB1489				
	83	OPERATING INSTRUCTIONS (ENGLISH) (VSX-53)	ARB1490				
	84	GUI MODE BUTTON(PLS)	AAD4048				
	85	REMOTE CONTROL UNIT (CU-VSX079) (VSX-D903S)	AXD1394				
NSP	85	REMOTE CONTROL UNIT (CU-VSX080) (VSX-53)	AXD1393				
	86	FM ANTENNA	ADH1004				
	87	ALKALINE(LR6, AA) LR6	AEX1007				
	88	.....					

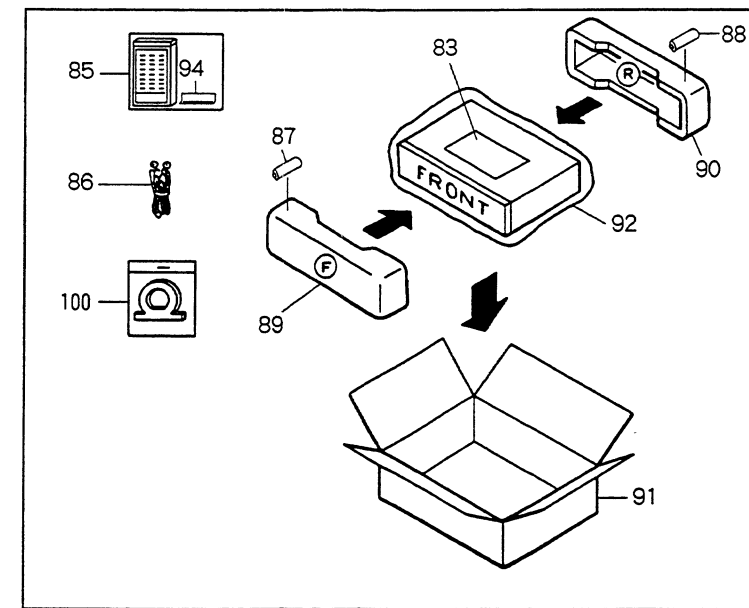
3.1 EXTERIOR AND PACKING

NOTE: Screws adjacent to ▼ mark on the product are used for disassembly.

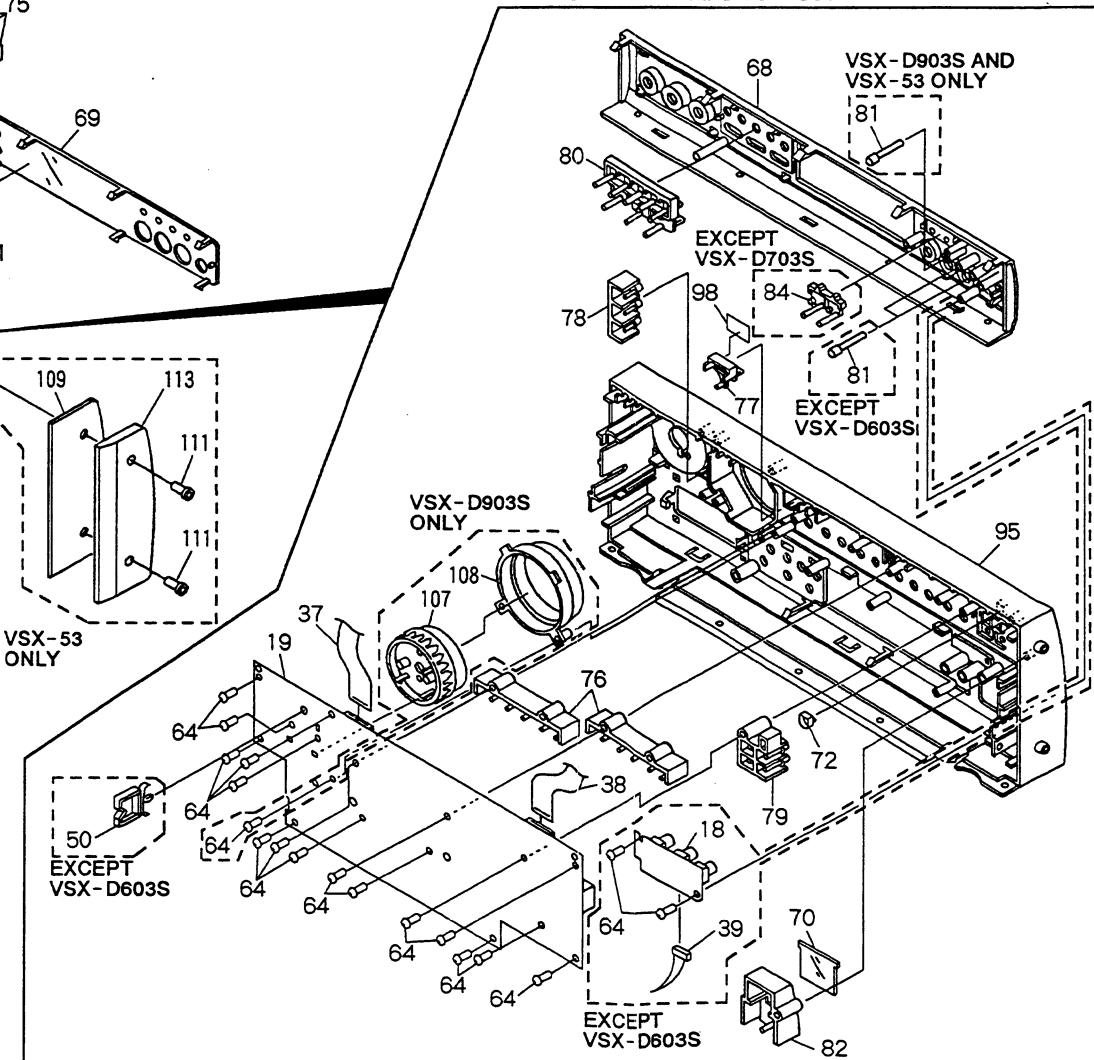
The illustration is based on VSX-D903S.



• PACKING



• FRONT PANEL SECTION



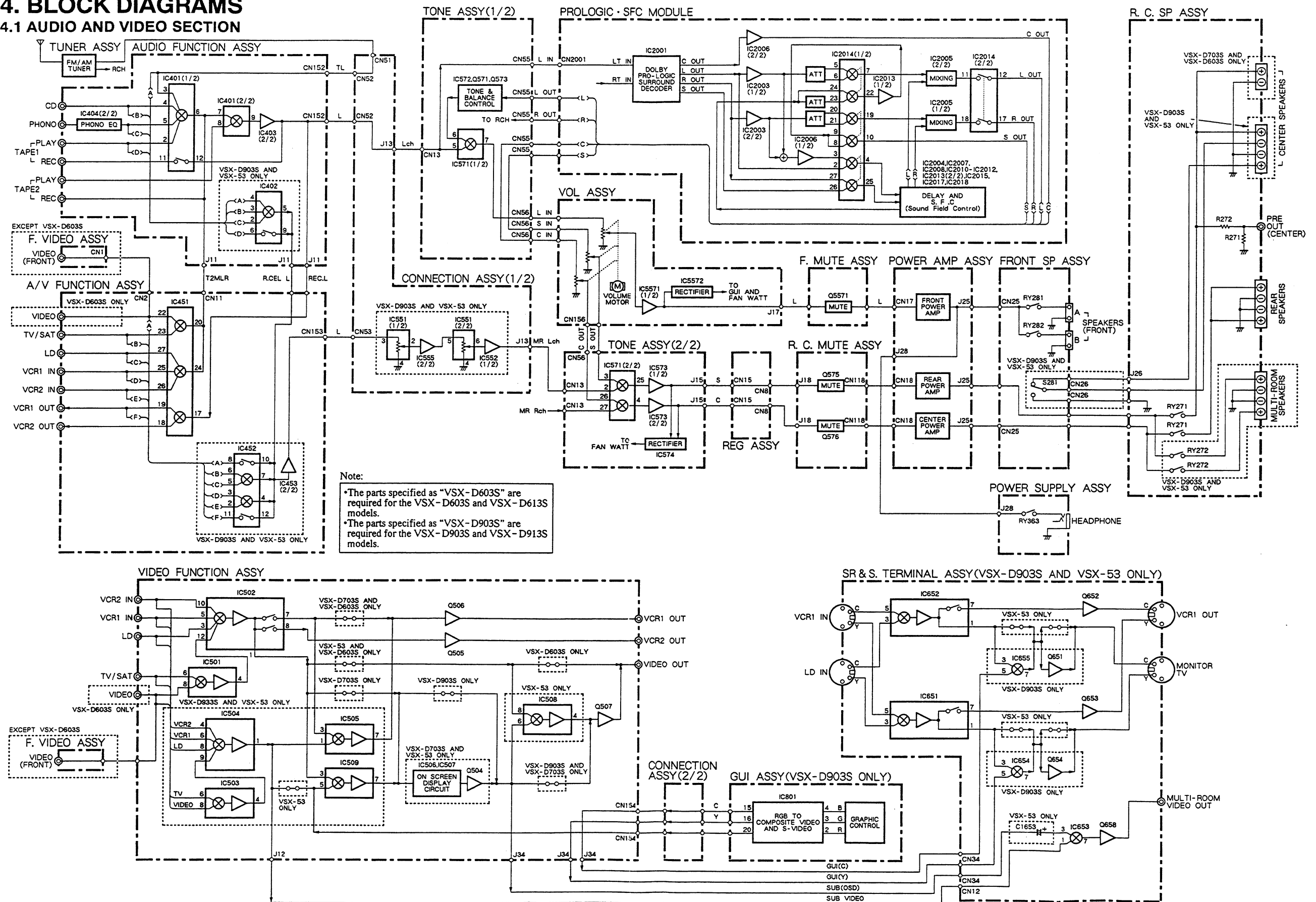
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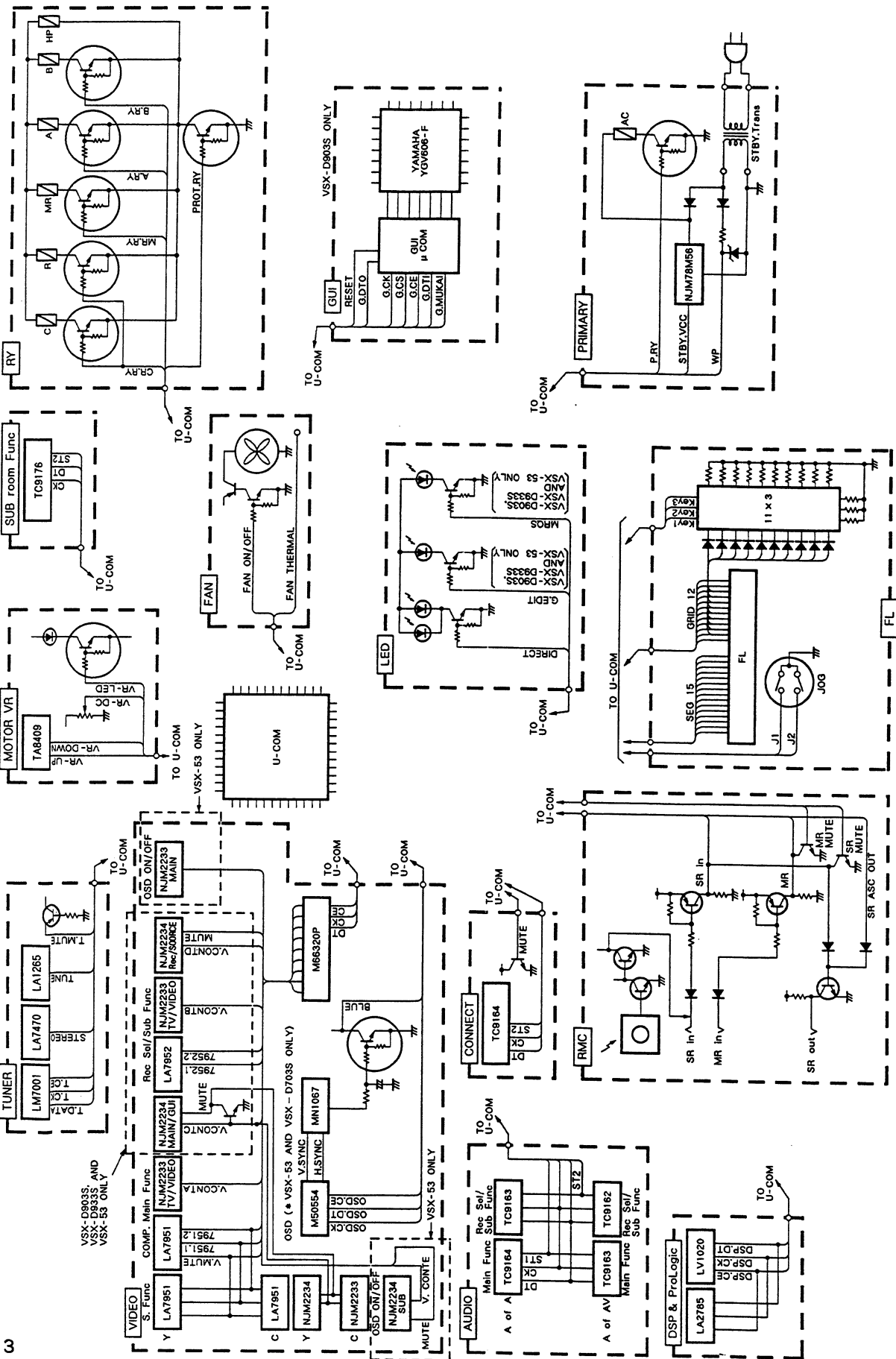
**VSX-D903S, VSX-D933S, VSX-53, VSX-D703S,
VSX-D613S, VSX-D603S, VSX-D633S**

4. BLOCK DIAGRAMS

4.1 AUDIO AND VIDEO SECTION



4.2 MICROCOMPUTER SECTION



5. SCHEMATIC AND PCB DIAGRAMS

NOTE FOR SCHEMATIC DIAGRAMS Type 1A
1. When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".

2. Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.

3. RESISTORS:
Unit: k Ω , M Ω , or Ω unless otherwise noted.
Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted.
Tolerance: (F): $\pm 1\%$, (G): $\pm 2\%$, (K): $\pm 10\%$, (M): $\pm 20\%$ or $\pm 5\%$ unless otherwise noted.

4. CAPACITORS:
Unit: pF or μ F unless otherwise noted.
Ratings: capacitor (μ F) / voltage (V) unless otherwise noted.
Rated voltage: 50V except for electrolytic capacitors.

5. COILS:
Unit: mH or μ H unless otherwise noted.

6. VOLTAGE AND CURRENT:
 : Signal voltage at rated output. (AMPLIFIER SECTION)
 : Signal voltage at FM 1kHz, 100% MOD. (TUNER SECTION)
 or $\leftarrow$ V :
DC voltage (V) at no input signal unless otherwise noted.
Value in () is DC voltage at rated power.
 mA or $\leftarrow$ mA :
DC current at no input signal unless otherwise noted.

7. OTHERS:
 or : Adjusting point.
 : Measurement point.
The Δ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.

8. SCH - ON THE SCHEMATIC DIAGRAM:
SCH- indicates the drawing number of the schematic diagram.
(SCH stands for schematic diagram.)

9. SWITCHES (Underline indicates switch position):
OUT OF PCB ASSY
(SD TYPE ONLY)

S1: VOLTAGE SELECTOR
(AC110V/120 - 127V/220V/240V)
S2: VOLTAGE SELECTOR
(AC110V, 120 - 127V/220V, 240V)
S3: CHANNEL STEP/FM DE-EMPHASIS
(FM 50kHz/50 μ S) (FM 100kHz/75 μ S)
(AM 9kHz) (AM 10kHz)

FRONT SP ASSY (VSX-D903S AND VSX-53 ONLY)

S281: CENTER SPEAKER SELECTOR

SW ASSY (VSX-D903S AND VSX-53 ONLY)

S111: FRONT SPEAKERS IMEDANCE SELECTOR

(VSX-D903S AND VSX-53)

FL U-COM ASSY
S701: VCR 2
S702: POWER STANDBY/ON
S703: MUTING
S704: VIDEO
S705: MEMORY
S706: SUPER BASS
S707: TV/SAT
S708: 1(AUTO SOURCE CONTROL)
S709: RETURN
S710: RESET
S711: LD
S712: 2(AUTO SOURCE CONTROL)
S713: SELECT(TUNING MODE)
S714: TAPE 1
S715: SPEAKERS A
S716: ENTER(TUNIG MODE)
S717: TAPE 2 MONITOR
S718: SPEAKERS B
S719: MEMORY(TUNIG MODE)
S720: PHONO
S721: REC SEL
S722: MPX MODE(TUNIG MODE)
S723: TUNER
S724: GUI MODE (VSX-D903S)
S724: OSD SUB ROOM (VSX-53)
S725: FM/AM(TUNIG MODE)
S726: CD
S727: MULTI-ROOM & SOURCE
S728: DOLBY 3CH LOGIC
S729: DIRECT
S730: VCR 1
S731: DSP(SORROUND MODE)
S732: DOLBY PRO-LOGIC (SORROUND MODE)
S733: MULTI JOG

(VSX-D703S AND VSX-D603S)

FL U-COM ASSY
S701: VCR 2
S702: POWER STANDBY/ON
S703: MUTING
S704: VIDEO
S705: MEMORY
S706: SUPER BASS
S707: TV/SAT
S708: 1(AUTO SOURCE CONTROL)
S709: RETURN
S710: RESET
S711: LD
S712: 2(AUTO SOURCE CONTROL)
S713: SELECT(TUNING MODE)
S714: TAPE 1
S715: SPEAKERS A
(VSX-D703S ONLY)
S716: ENTER(TUNIG MODE)
S717: TAPE 2
S718: SPEAKERS B
(VSX-D703S ONLY)
S719: MEMORY(TUNIG MODE)
S720: PHONO
S722: MPX MODE(TUNIG MODE)
S723: TUNER
S724: SPEAKERS A
(VSX-D603S ONLY)
S725: FM/AM(TUNIG MODE)
S726: CD
S727: SPEAKERS A
(VSX-D603S ONLY)
S728: DOLBY 3CH LOGIC
S729: DIRECT
S730: VCR 1
S731: DSP(SORROUND MODE)
S732: DOLBY PRO-LOGIC (SORROUND MODE)
S733: TUNER JOG

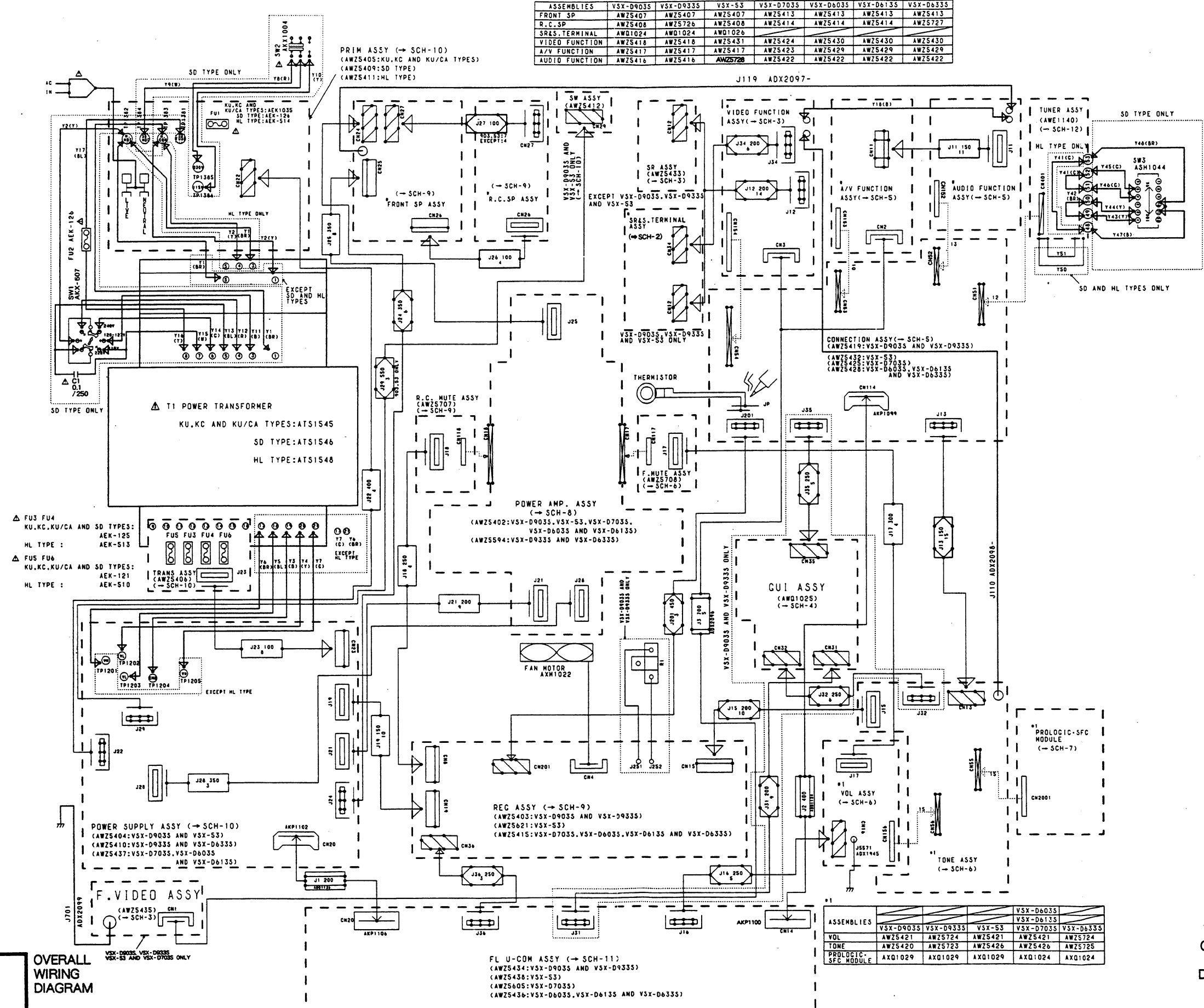
NOTE FOR PCB DIAGRAMS:

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Transistor
		Diode
		Capacitor (Polarized)

3. The transistor terminal marked with E or shows the emitter.
4. The diode terminal marked with or shows cathode side.
5. The capacitor terminal marked with or shows negative terminal.

5.1 OVERALL WIRING DIAGRAM



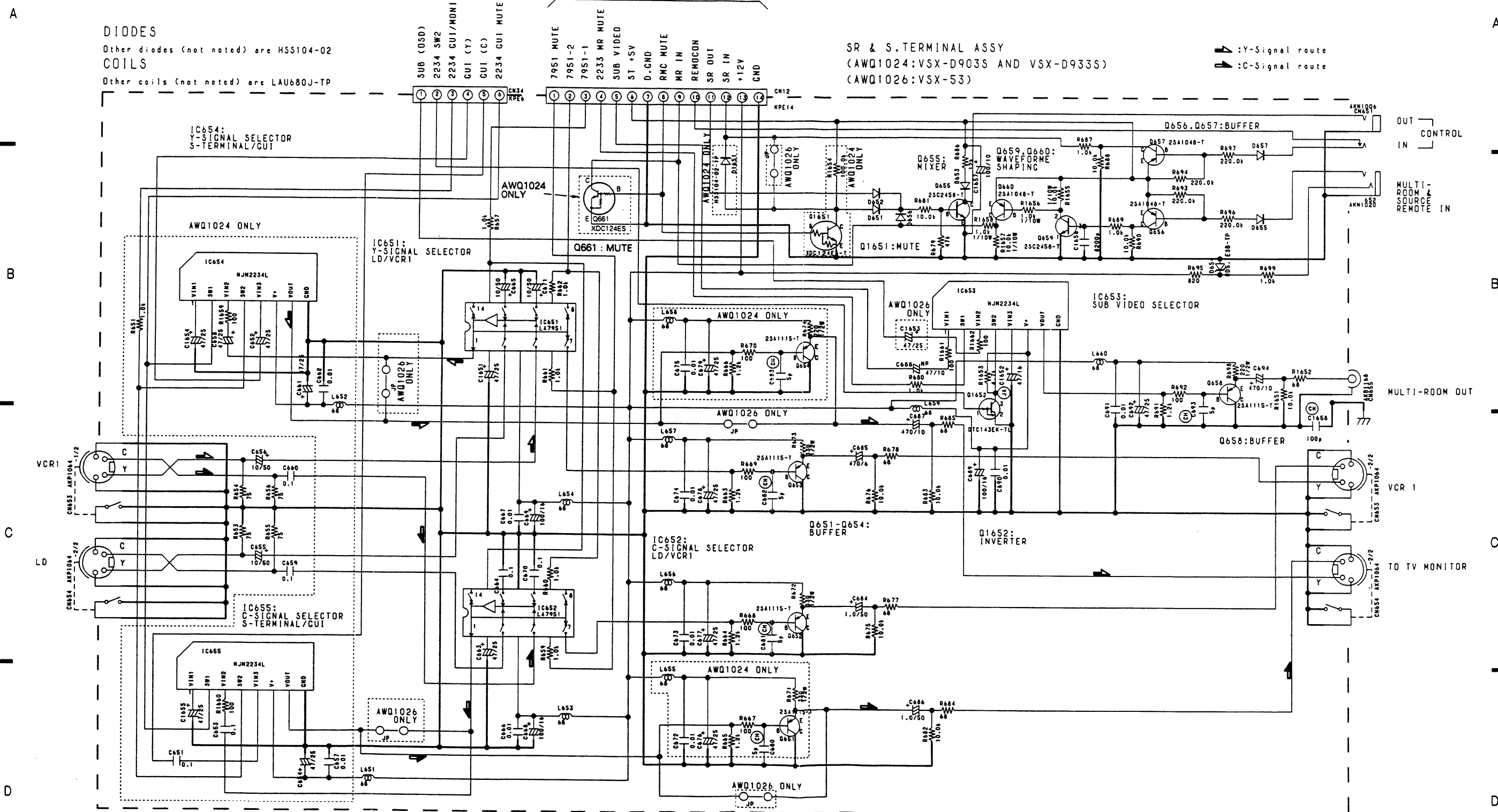
OVERALL
WIRING
DIAGRAM

SCH-1

SCH-1

5.2 SR & S. TERMINAL ASSY

SCH-2



SCH-2

SR & S.
TERMINAL
ASSY

SR & S.
TERMINAL
ASSY

SCH-2

7

PCB - 1

* 1 : VSX-D903S AND VSX-D933S ONLY
* 2 : VSX-53 ONLY



A

B

B

C

C

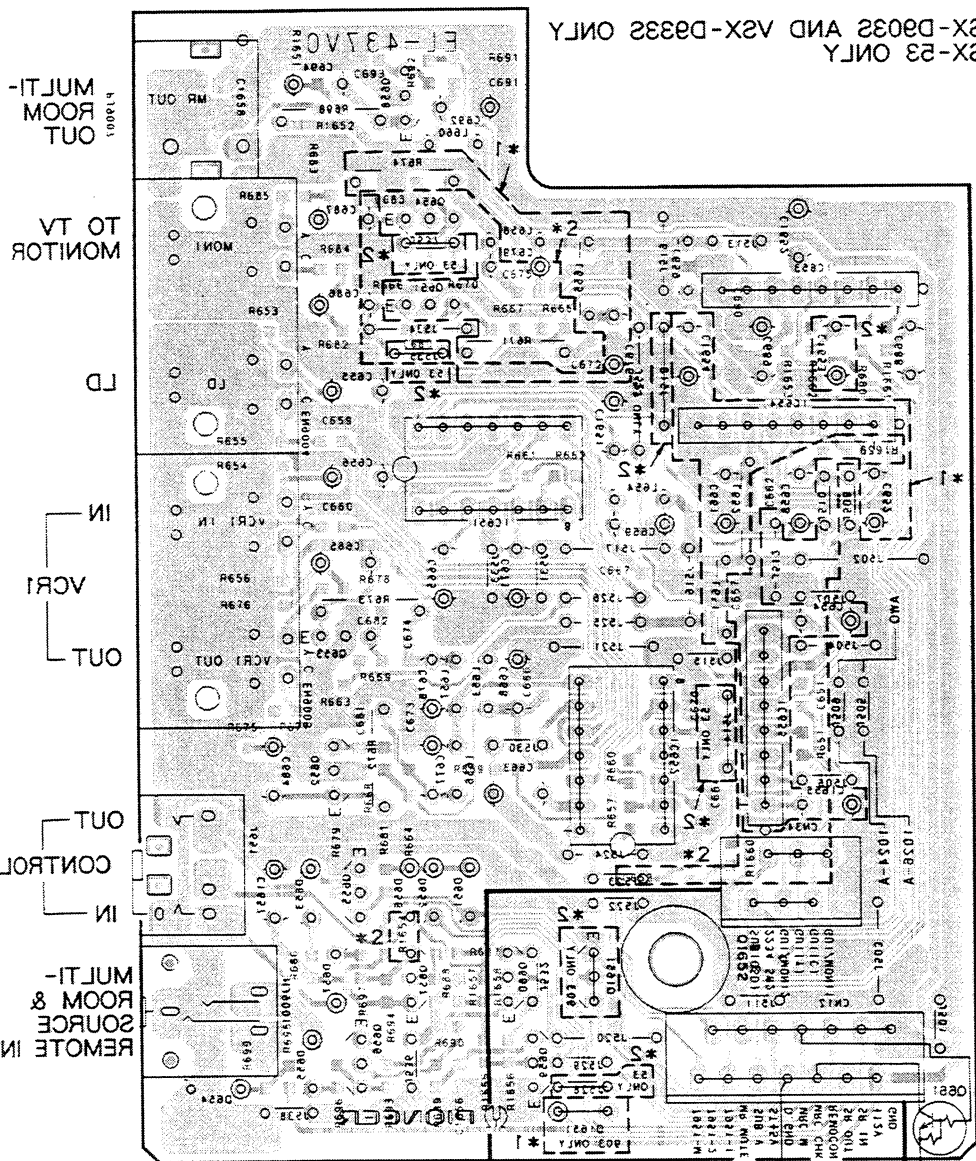
7

□

- This diagram is viewed from the mounted parts side.

V2X - D6032, V2X - D6132, V2X - D6332
V2X - D6032, V2X - D6332, V2X - 23, V2X - D7032

PCB - 1



VIDEO FUNCTION
ASSY 134

VIDEO FUNCTION
ASSY 115

• This diagram is viewed from the foil side.

SR & 2. TERMINAL ASSY

NOTE:
* 1: V2X-D6032 AND V2X-D6332 ONLY
* 2: V2X-23 ONLY

- Q628
- * 1 [Q624]
- * 1 [Q621]
- * 1 [Q624]
- IC621
- Q623
- * 1 [Q622]
- Q625
- Q622
- * 2 [Q621]
- Q620
- Q627
- Q628
- Q629
- Q621

A

B

C

D

A

B

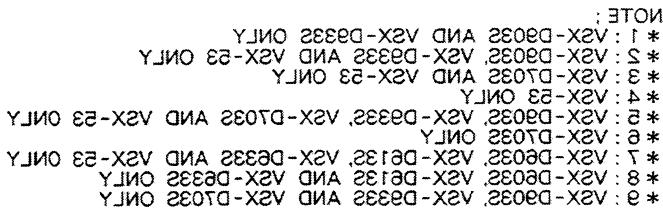
C

D

2R ASSY AND V2X-DE332 ONLY) V2X-D7032, V2X-DE032, V2X-DE132

A

A



B

C

C

D

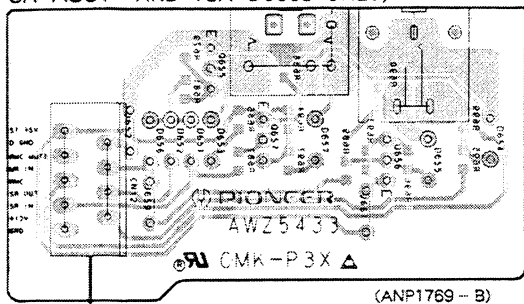
D

5.3 VIDEO FUNCTION, SR AND F. VIDEO ASSEMBLIES

(VSX-D703S, VSX-D603S, VSX-D613S
SR ASSY AND VSX-D633S ONLY)

PCB - 2

A

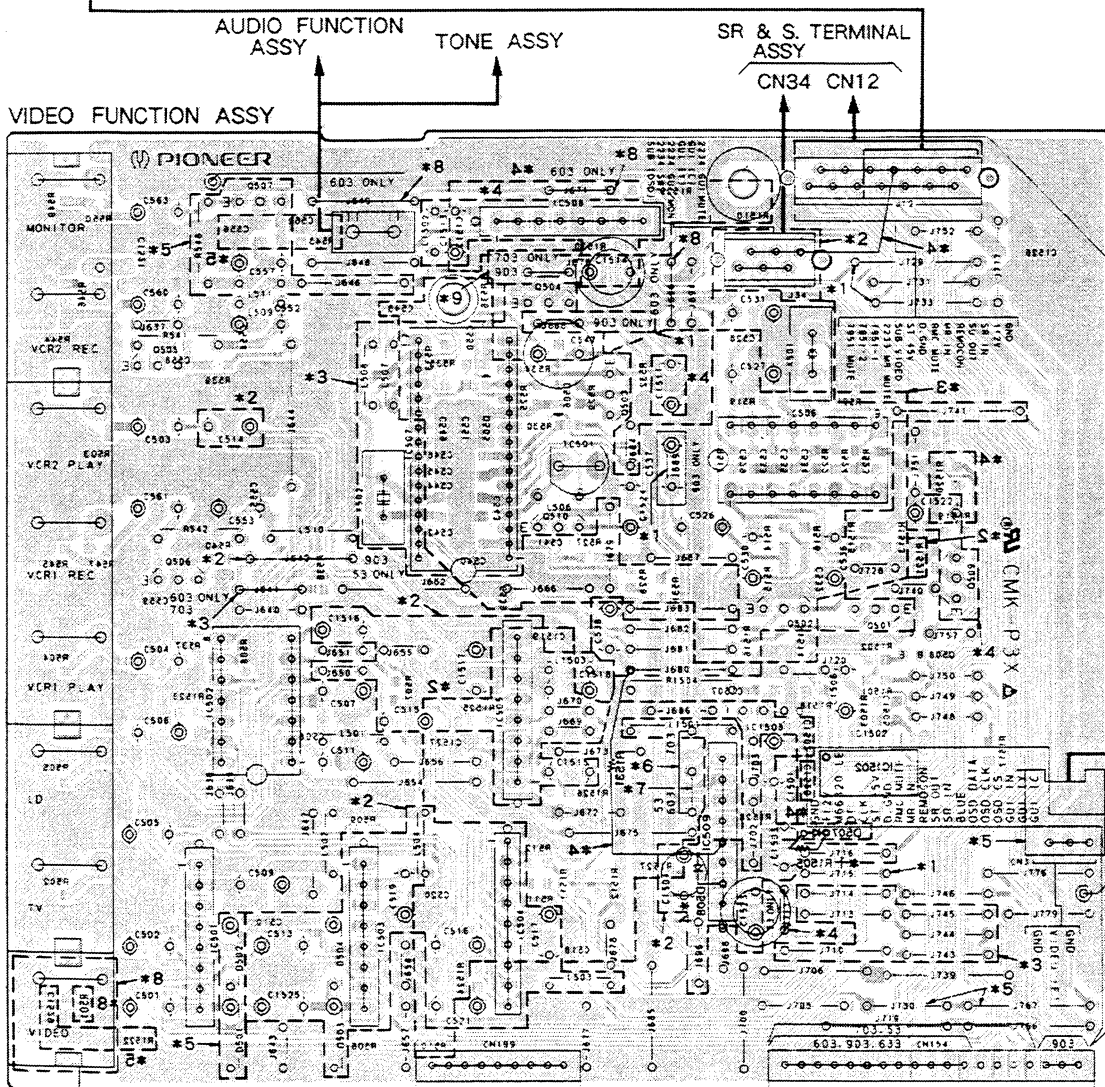


NOTE :

- * 1 : VSX-D903S AND VSX-D933S ONLY
- * 2 : VSX-D903S, VSX-D933S AND VSX-53 ONLY
- * 3 : VSX-D703S AND VSX-53 ONLY
- * 4 : VSX-53 ONLY
- * 5 : VSX-D903S, VSX-D933S, VSX-D703S AND VSX-53 ONLY
- * 6 : VSX-D703S ONLY
- * 7 : VSX-D603S, VSX-D613S, VSX-D633S AND VSX-53 ONLY
- * 8 : VSX-D603S, VSX-D613S AND VSX-D633S ONLY
- * 9 : VSX-D903S, VSX-D933S AND VSX-D703S ONLY

A

B



Q507 *5

IC508 *4

Q504 *3

Q505

Q503 *3

IC506

IC507

Q510

Q506 *4

Q502 Q501

*3

808D

IC502

IC505 IC1503

*2

S021C1

IC509 *2

IC501

IC503 *2

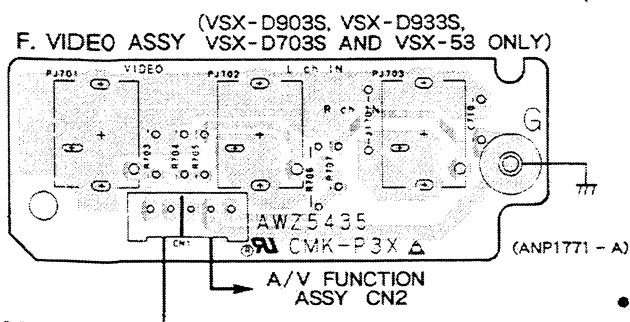
IC504

B

C

C

D



• This diagram is viewed from the mounted parts side.

D

A

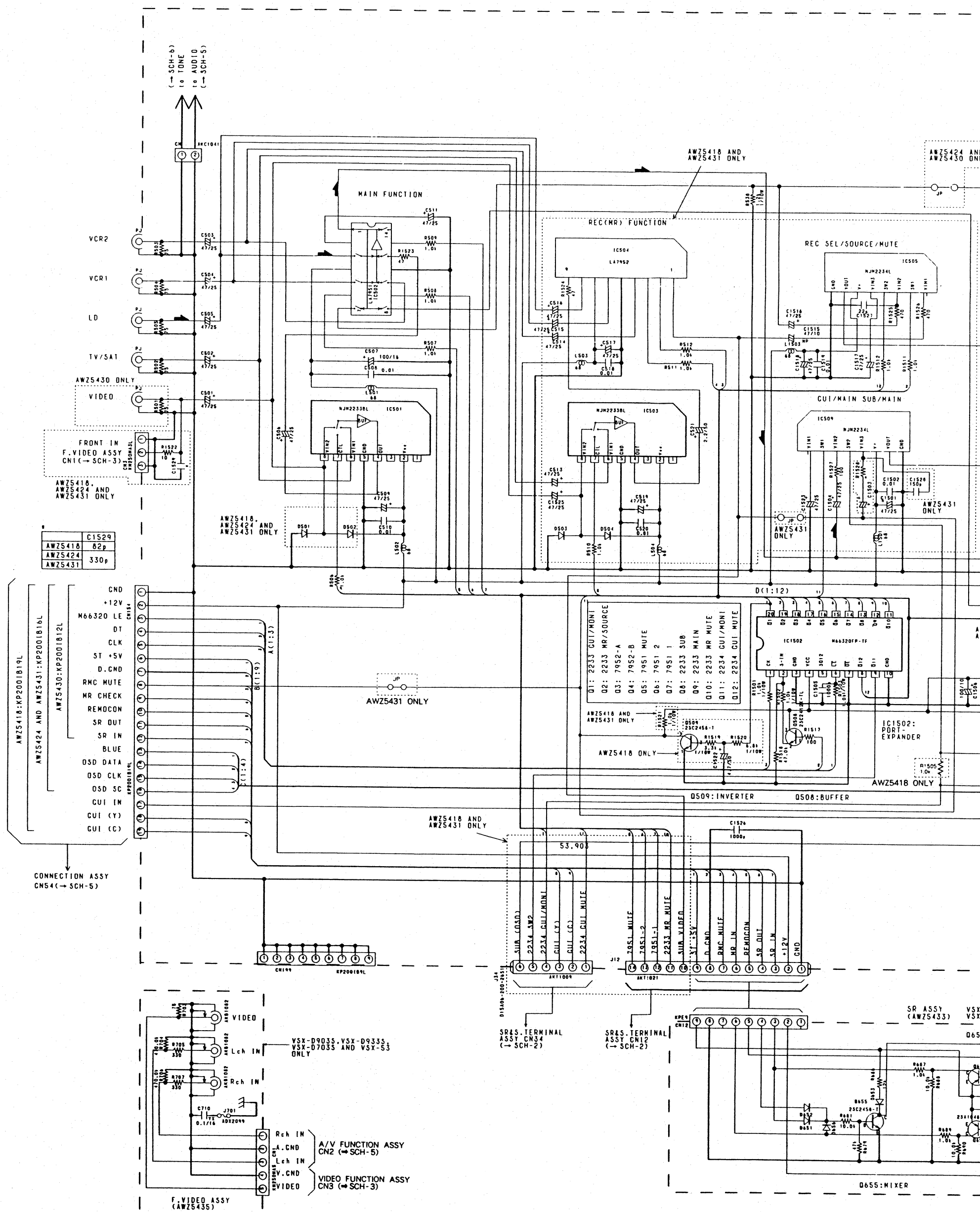
B

C

D

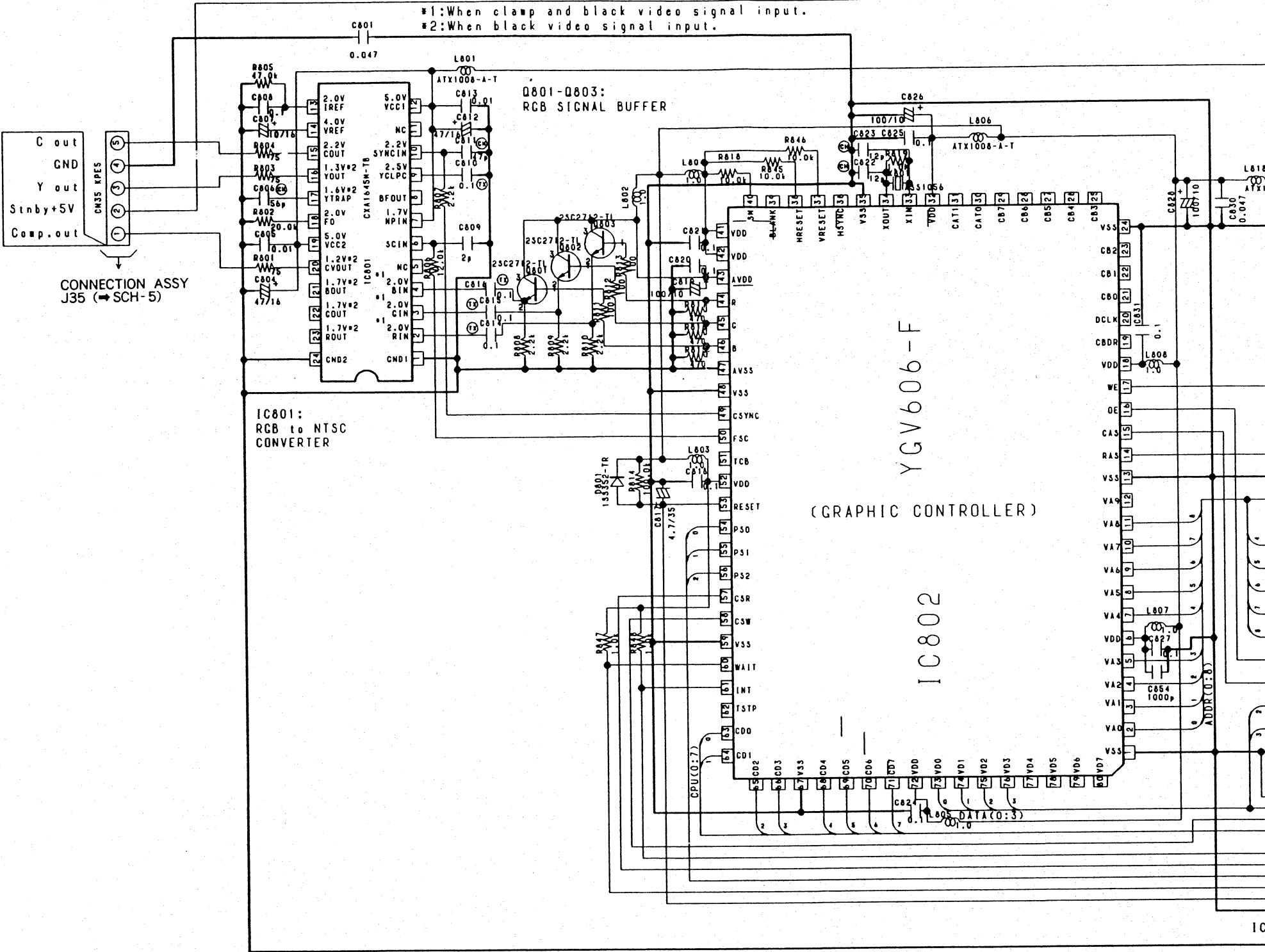
E

F

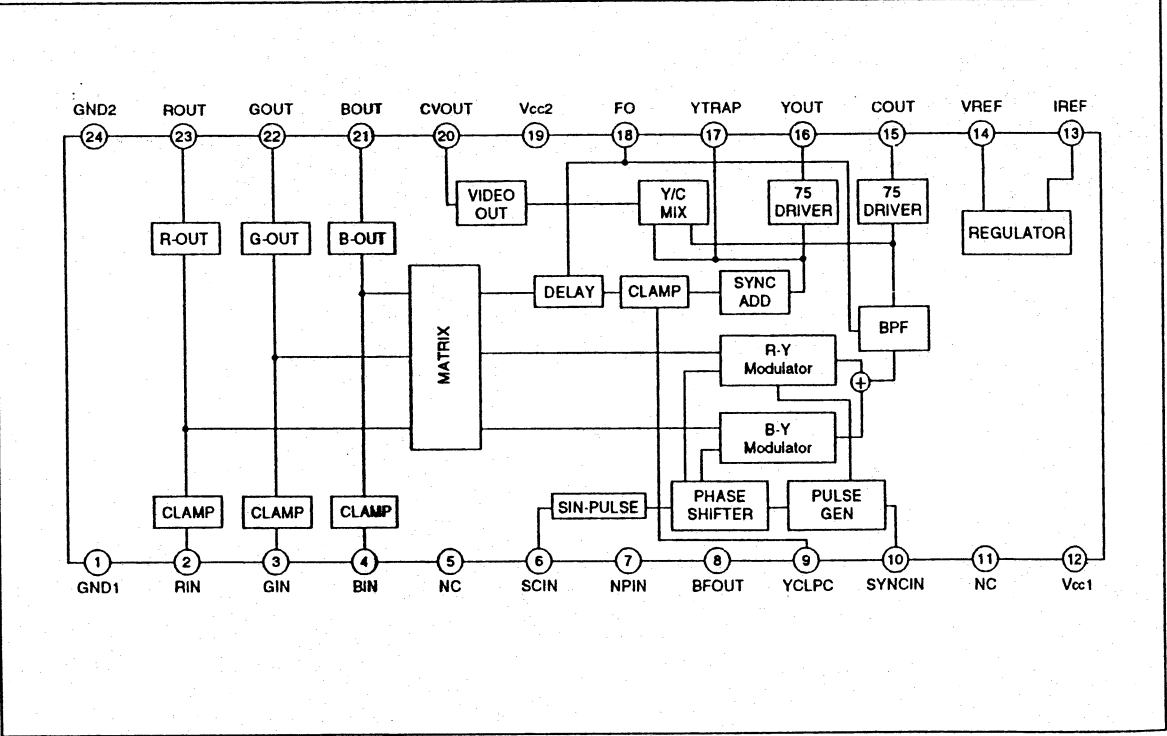


5.4 GUI ASSY

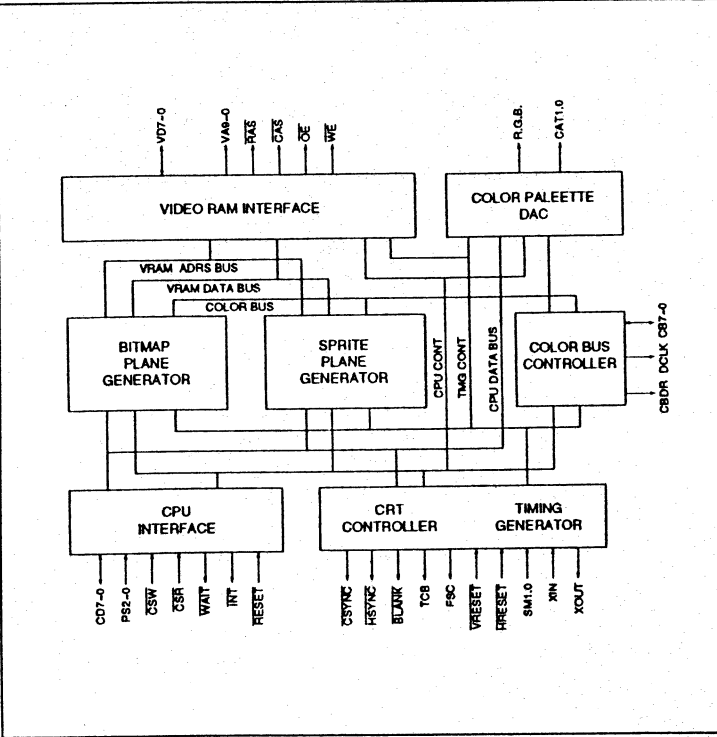
GUI ASSY(AWQ1025:VSX-D903S AND VSX-D933S ON



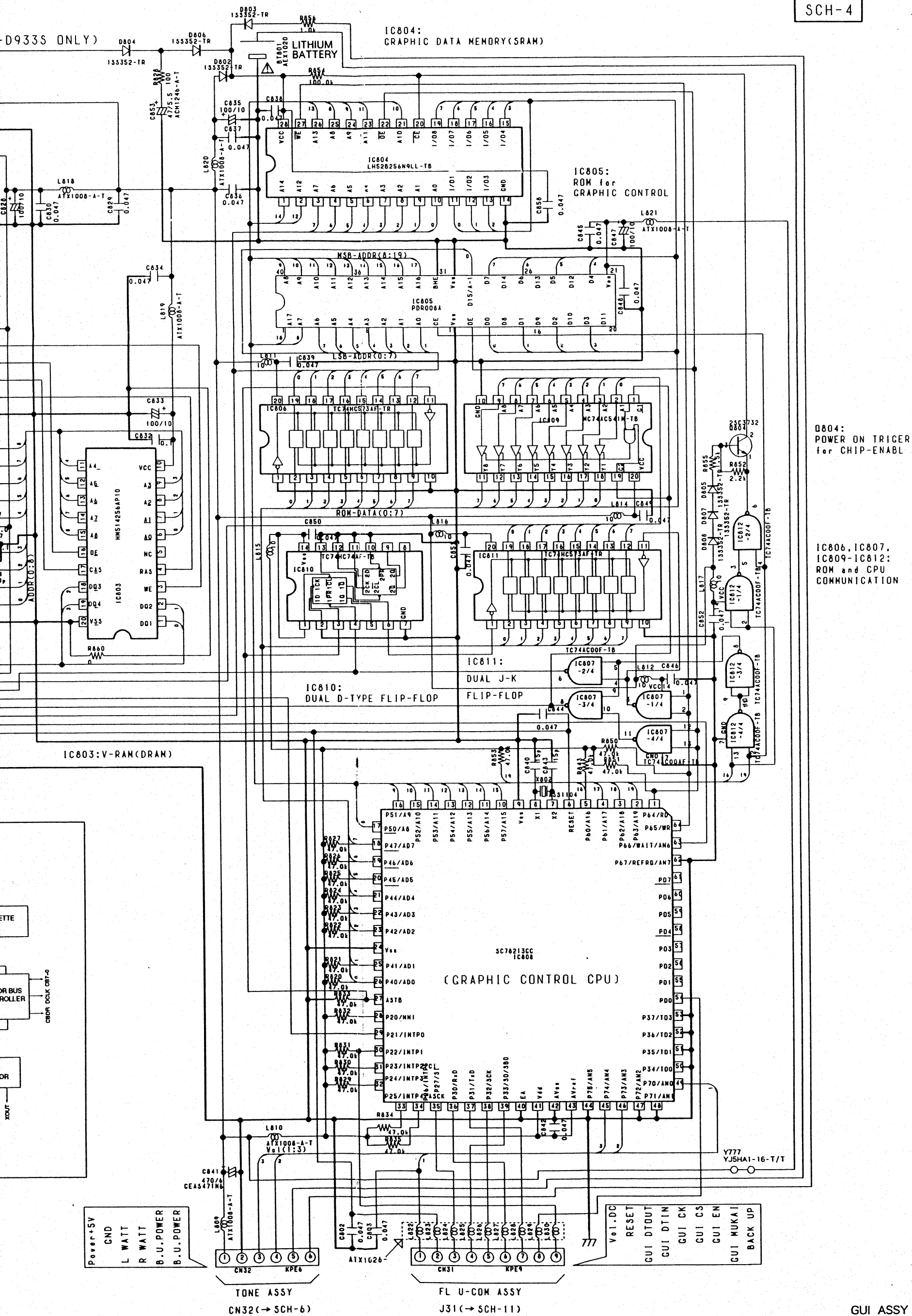
IC801(CXA1645M)



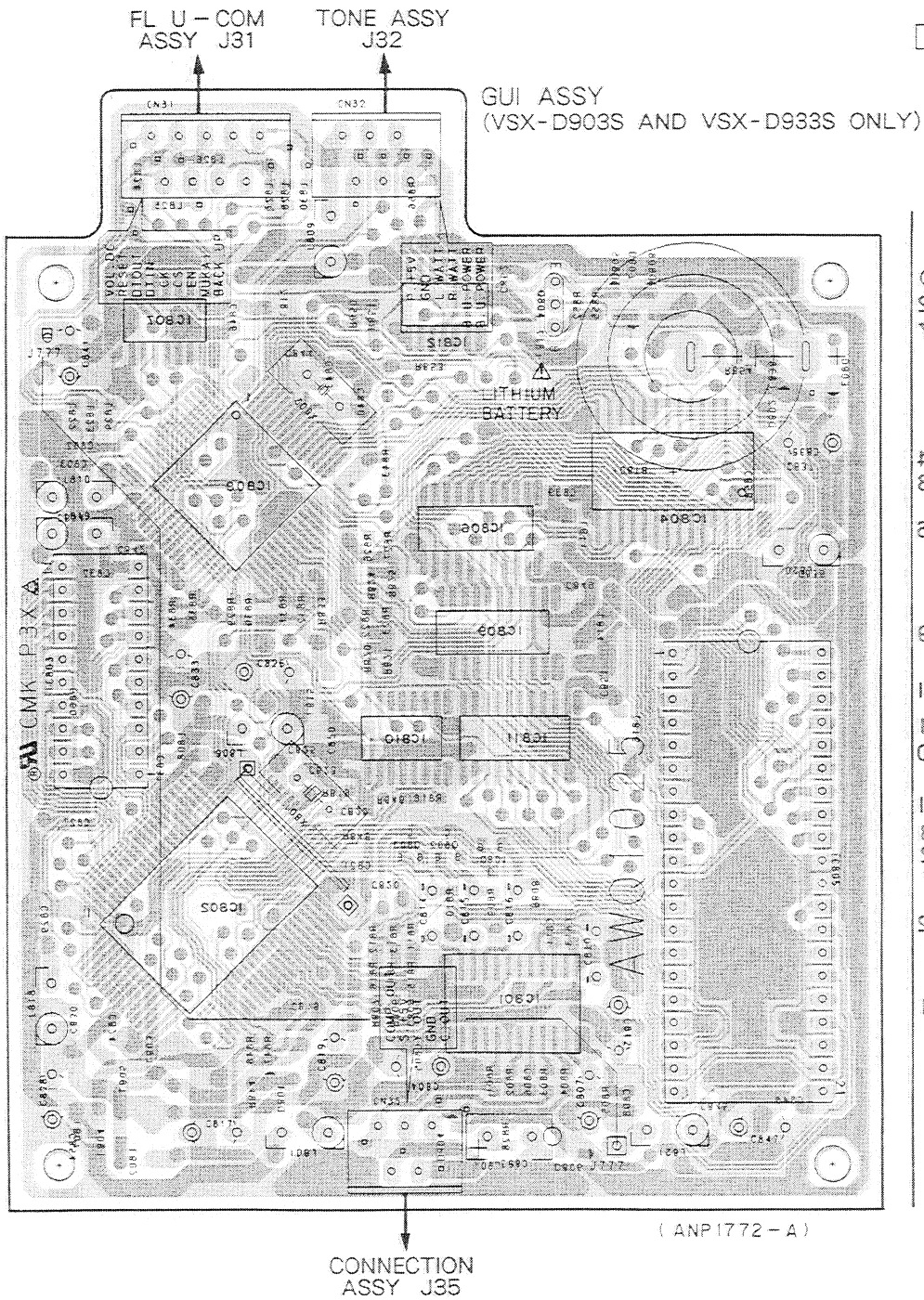
IC802(YGV606-F)



SCH-4



VSX - D903S, VSX - D933S, VSX - 53, VSX - D703S,
VSX - D603S, VSX - D613S, VSX - D633S



PCB - 3

Q804
Σ1801
T0801

40801
80801
80801

80801

IC803
11801
01801

IC805
8080
S080
T080

Σ0801

T0801

- This diagram is viewed from the pink colored foil side.
- This PCB is double sided.

V2X - D6032, V2X - D6132, V2X - D6332
V2X - D6032, V2X - D6332, V2X - F3, V2X - D7032

PCB - 3

(V2X-D6032 AND V2X-D6332 ONLY)
GUI ASSY

FL U - COM
ASSY 731
TONE ASSY
735

4080
IC812
IC807

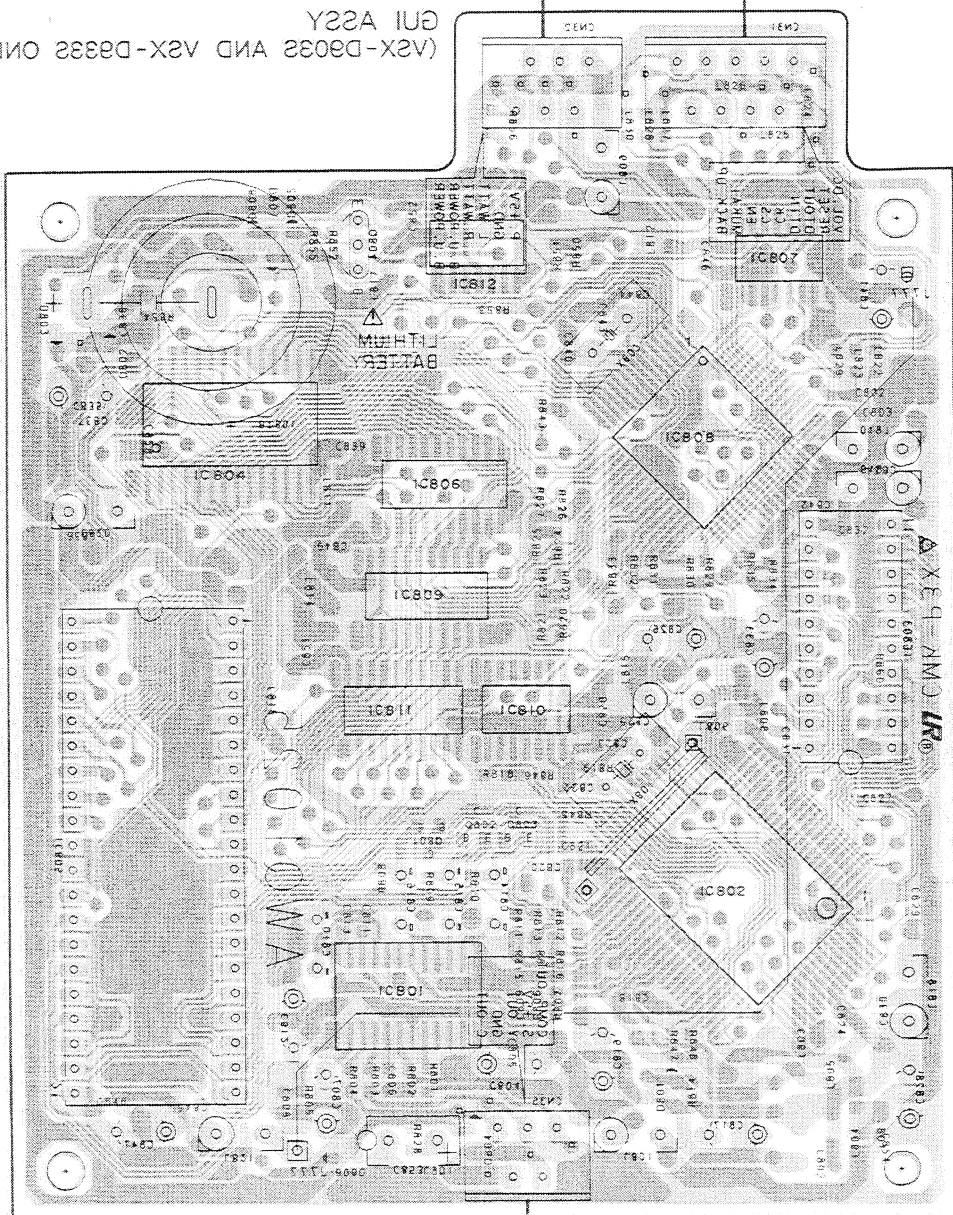
IC804
IC808
IC806

IC809

IC803
IC811
IC810
IC802
Q803
Q802
Q801

IC802

IC801



(AP175-A)

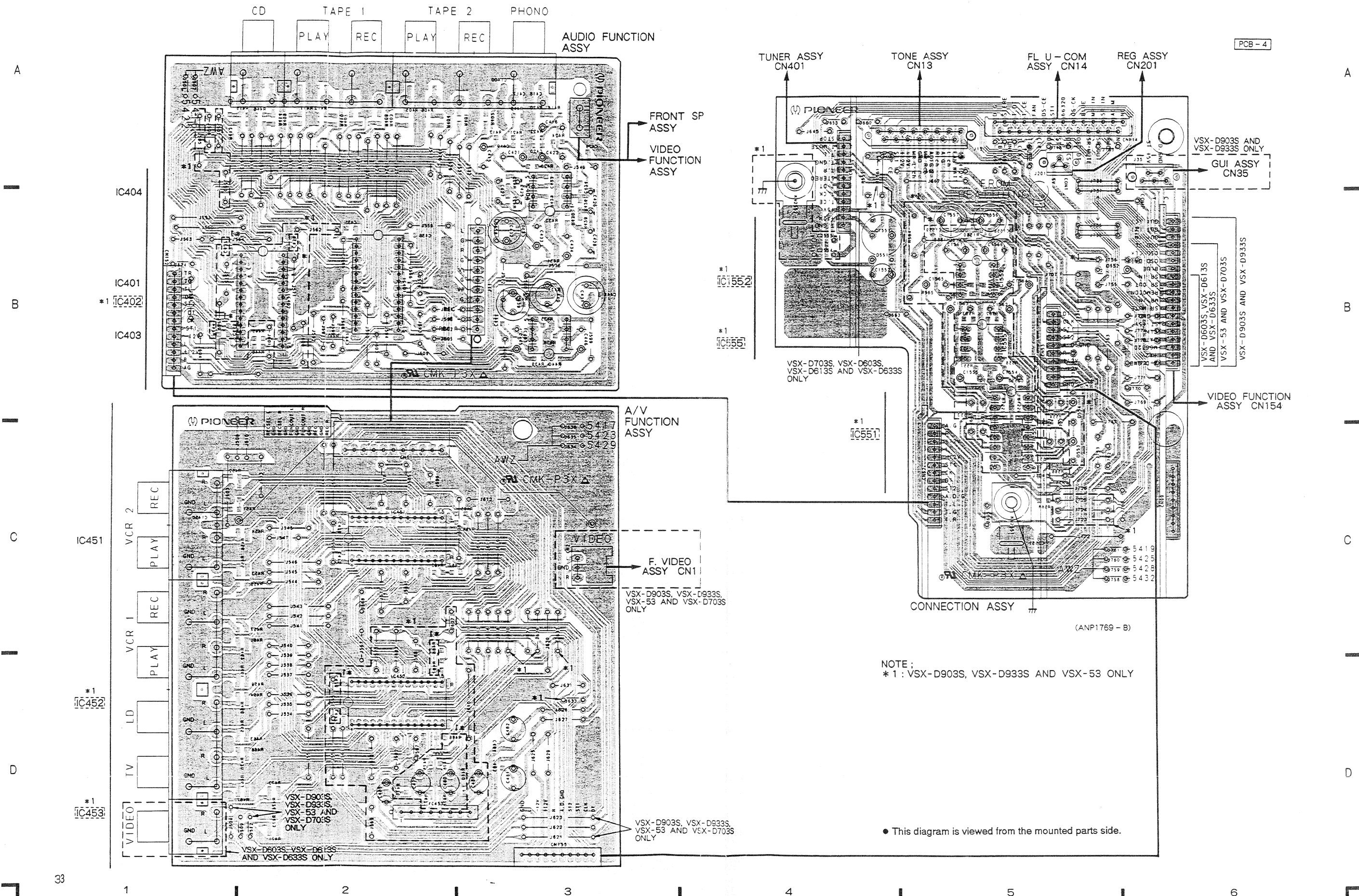
CONNECTION
ASSY 735

- This diagram is viewed from the gray colored foil side.
- This PCB is double sided.



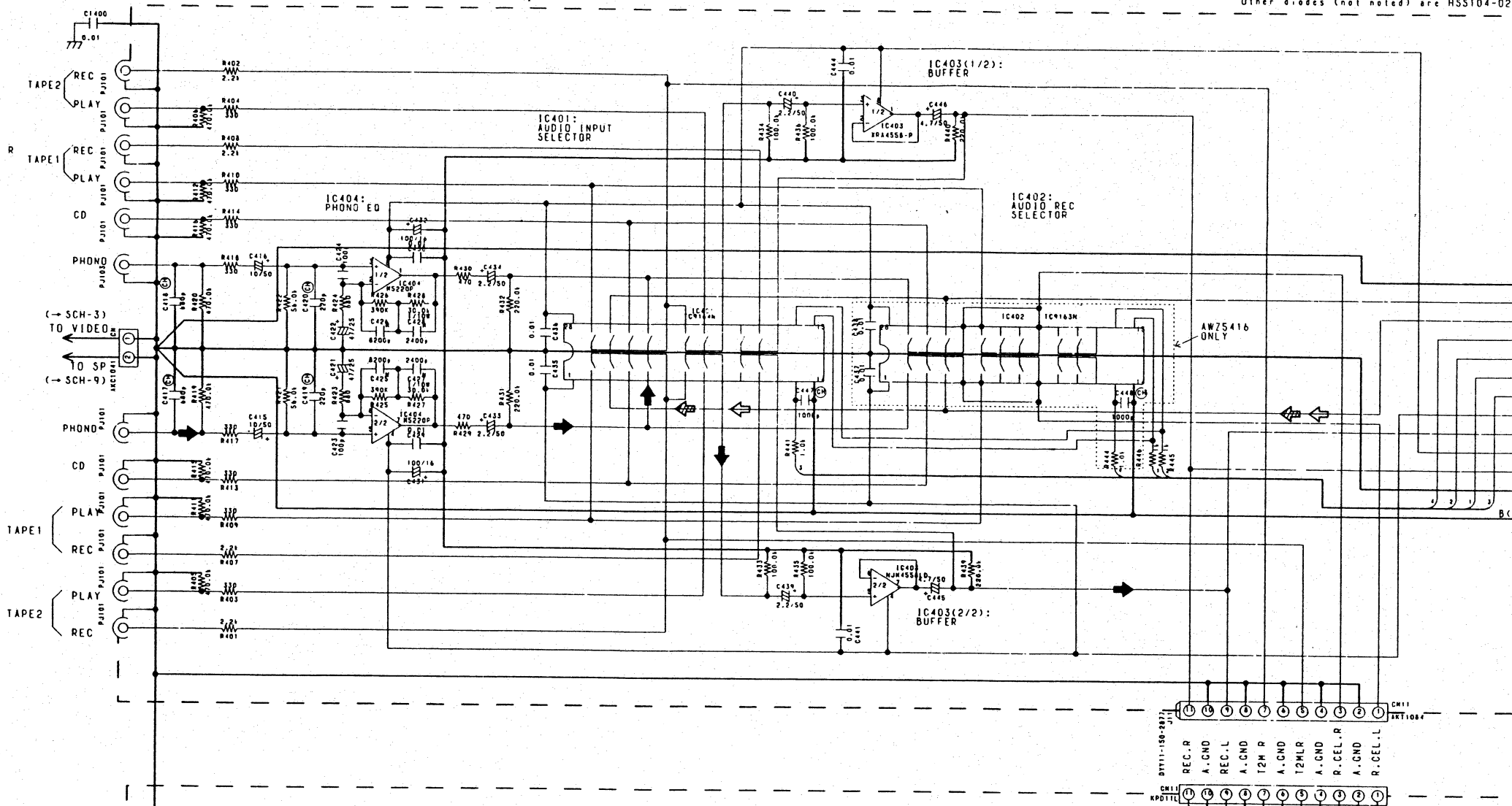
• This diagram is viewed from the foil side.

5.5 AUDIO FUNCTION, A/V FUNCTION AND CONNECTION ASSEMBLIES

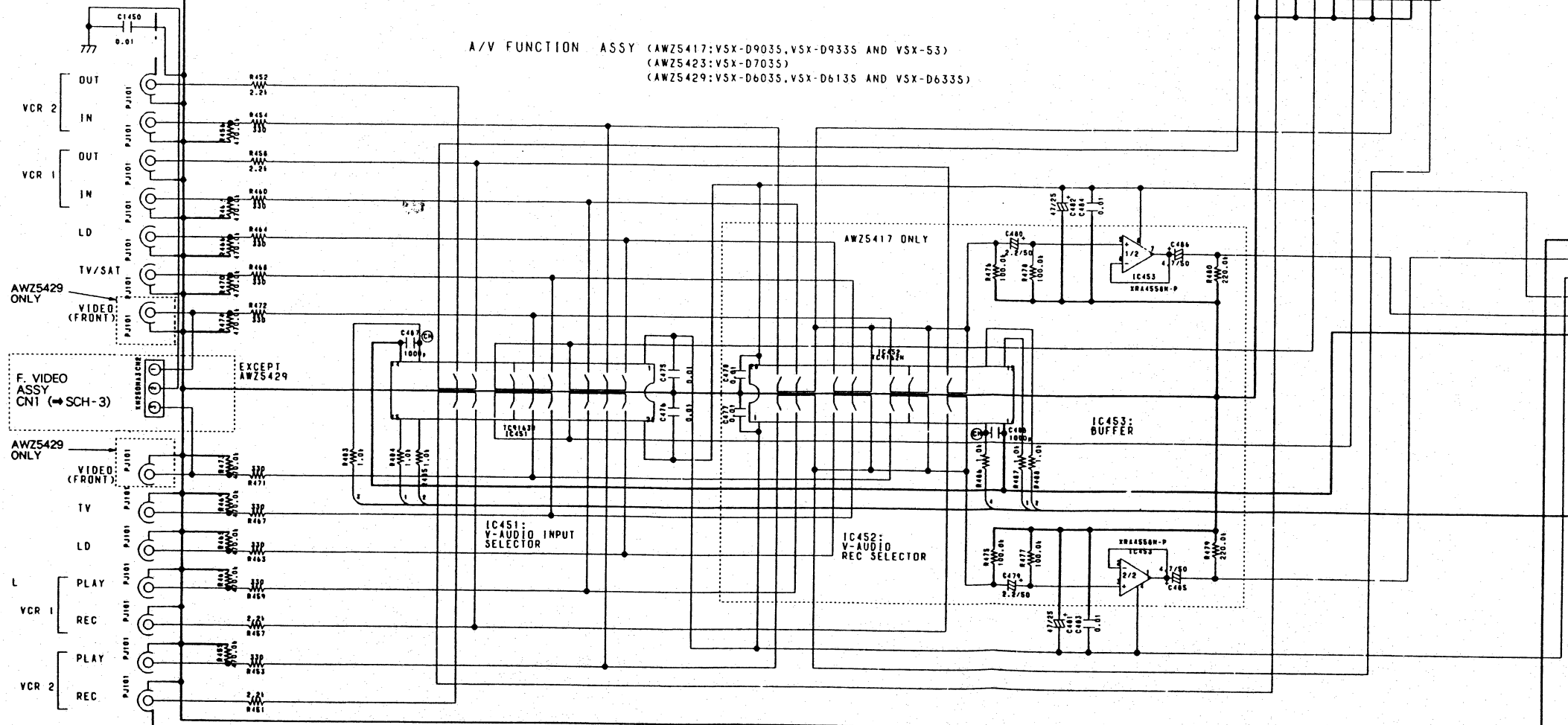


AUDIO FUNCTION ASSY
 (AWZ5416: VSX-D903S AND VSX-D933S)
 (AWZ5728: VSX-53)
 (AWZ5422: VSX-D703S, VSX-D603S, VSX-D613S AND VSX-D633S)

➡: Front audio signal route
 ⇨: FM signal route (Lch)
 ⇩: AM signal route (Lch)
DIODES
 Other diodes (not noted) are H55104-02

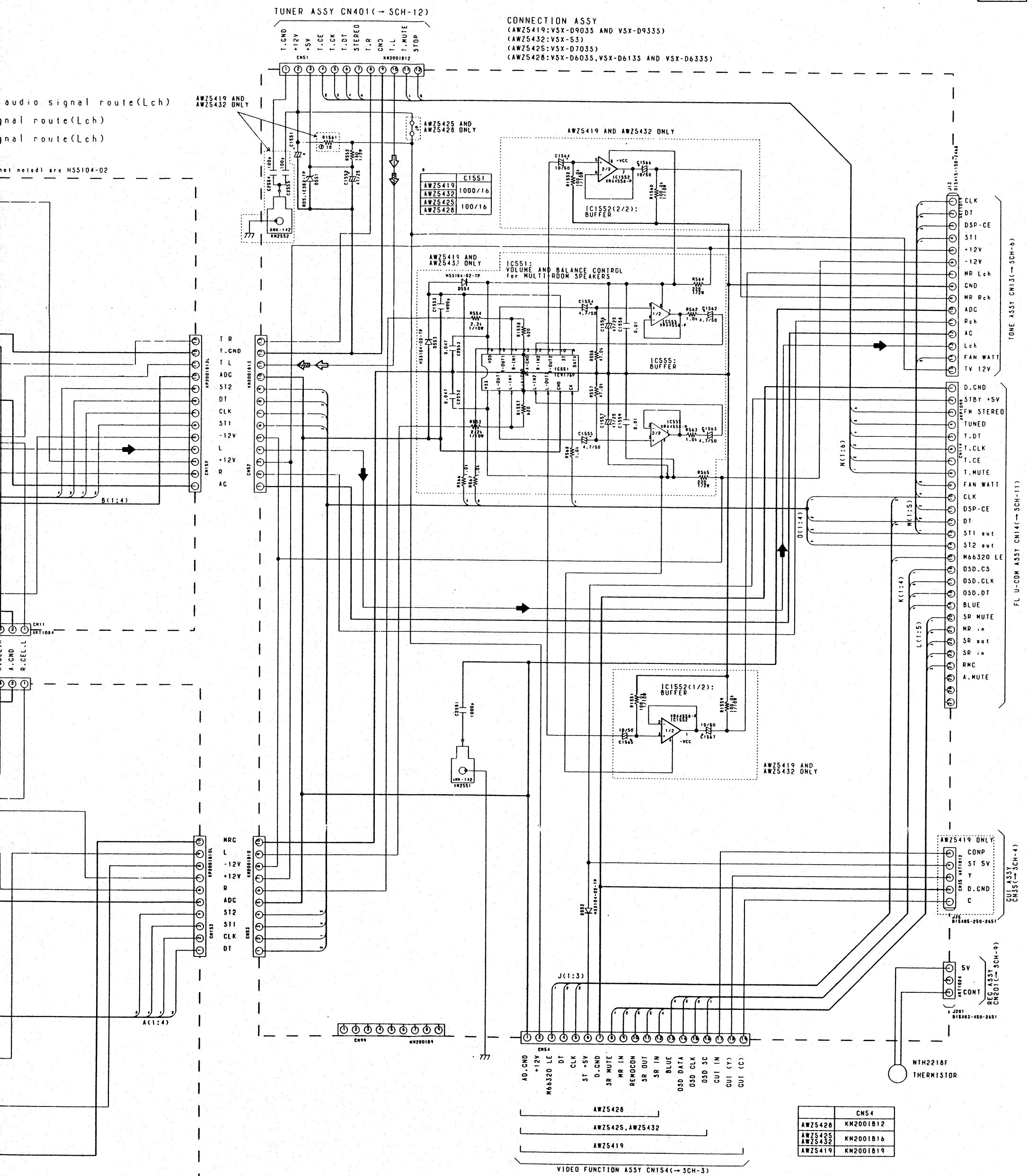


A/V FUNCTION ASSY (AWZ5417: VSX-D903S, VSX-D933S AND VSX-53)
 (AWZ5423: VSX-D703S)
 (AWZ5429: VSX-D603S, VSX-D613S AND VSX-D633S)



SCH-5

**AUDIO FUNCTION ASSY,
 A/V FUNCTION ASSY,
 CONNECTION ASSY**



AUDIO FUNCTION ASSY,
A/V FUNCTION ASSY,
CONNECTION ASSY

SCH-5

A

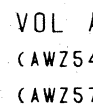
B

C

D

E

F



DC. E

TONE

W75420	5.6
W75426	
W75723	111
W75725	

SCH-6

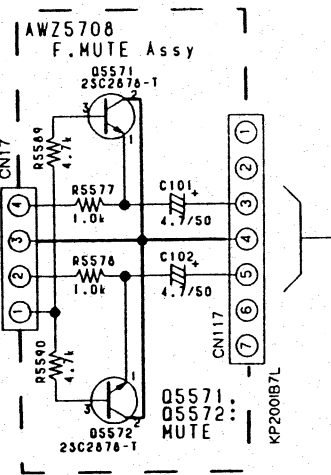
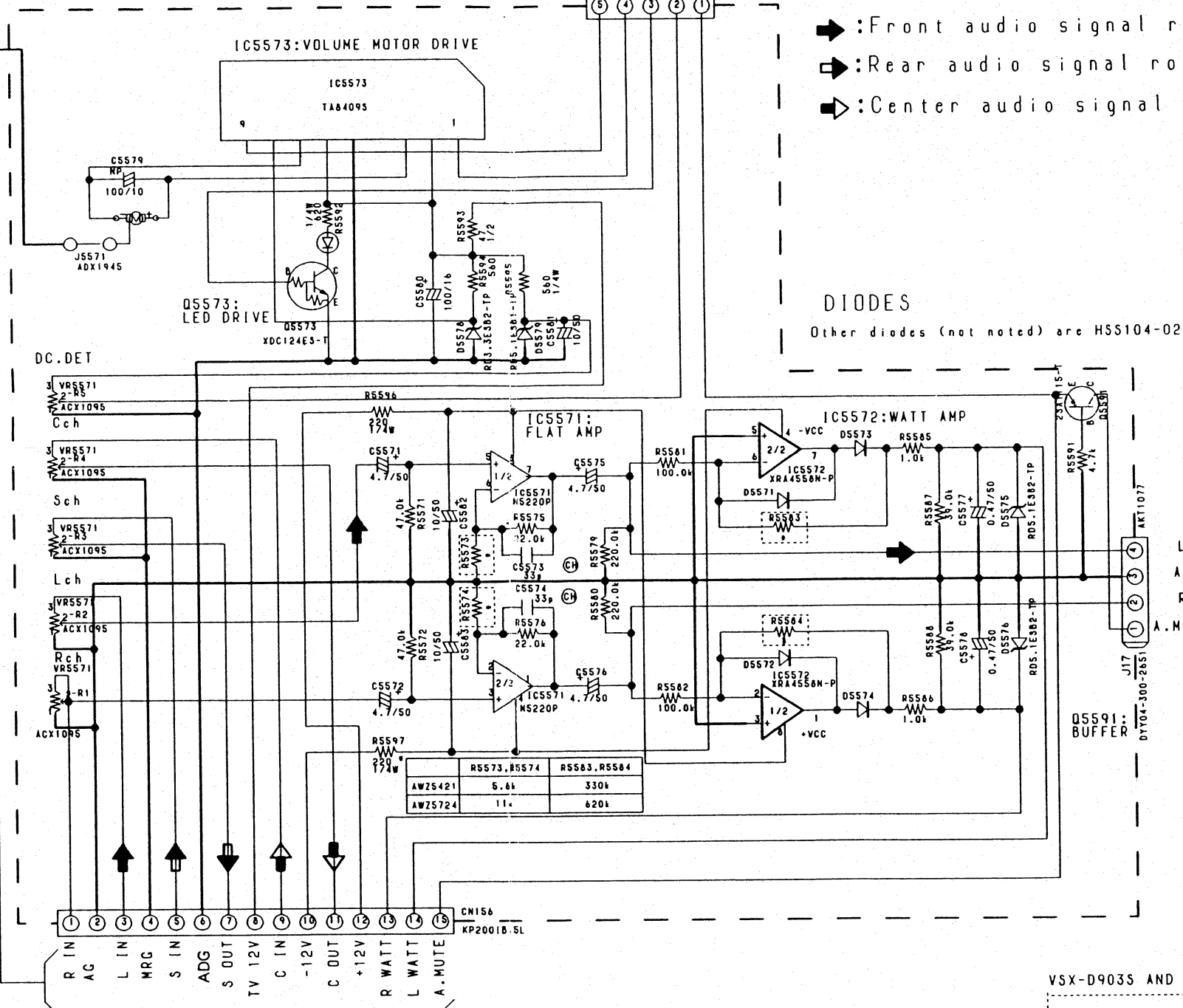
TONE ASSY,
VOL ASSY,
F. MUTE ASSY

SCH-6

VOL ASSY

(AWZ5421:KU,KC,SD AND KU/CA TYPES)

(AWZ5724:HL TYPE)

POWER AMP ASSY
CN17(→SCH-8)

TONE ASSY

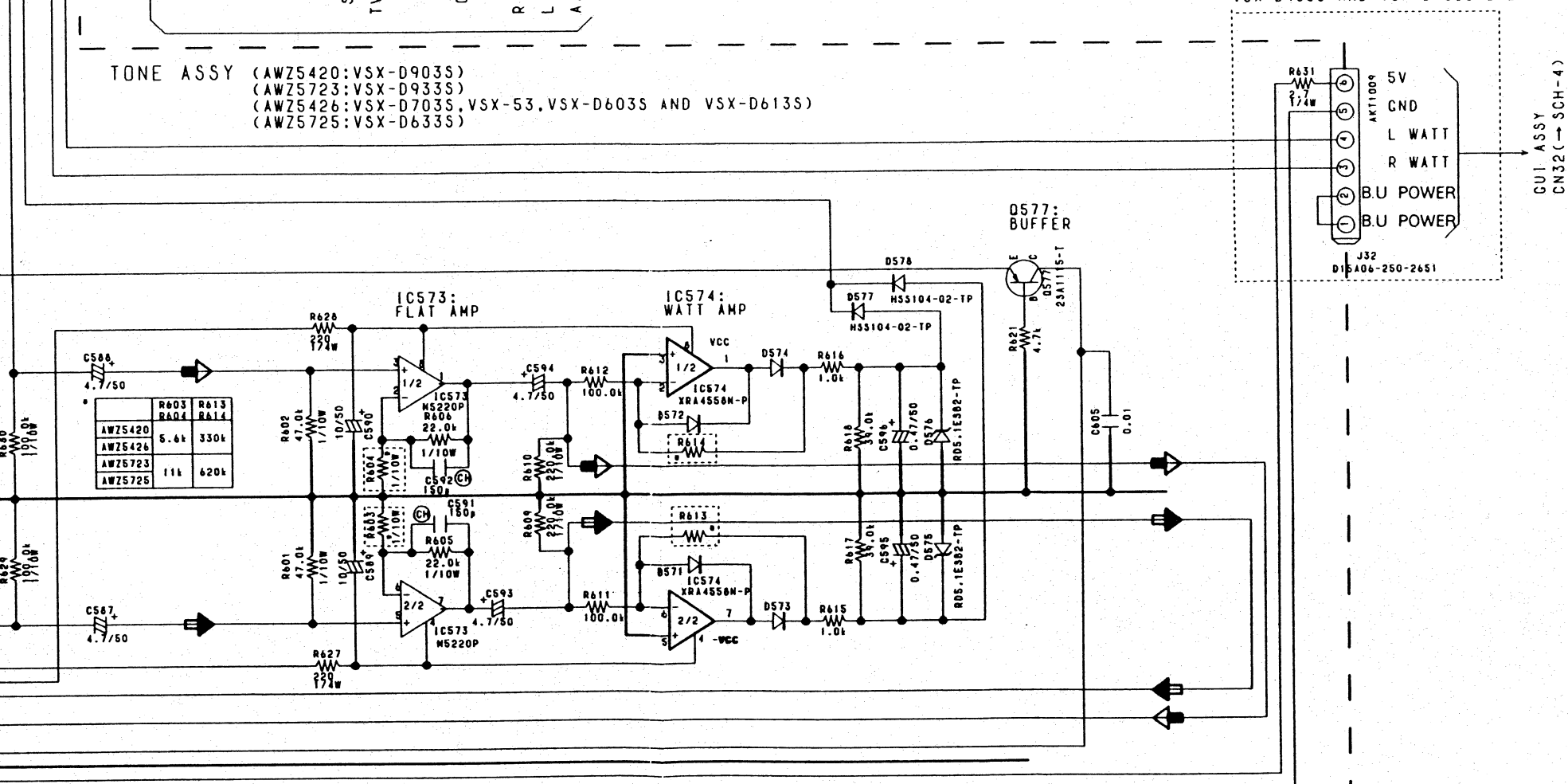
(AWZ5420:VSX-D903S)

(AWZ5723:VSX-D933S)

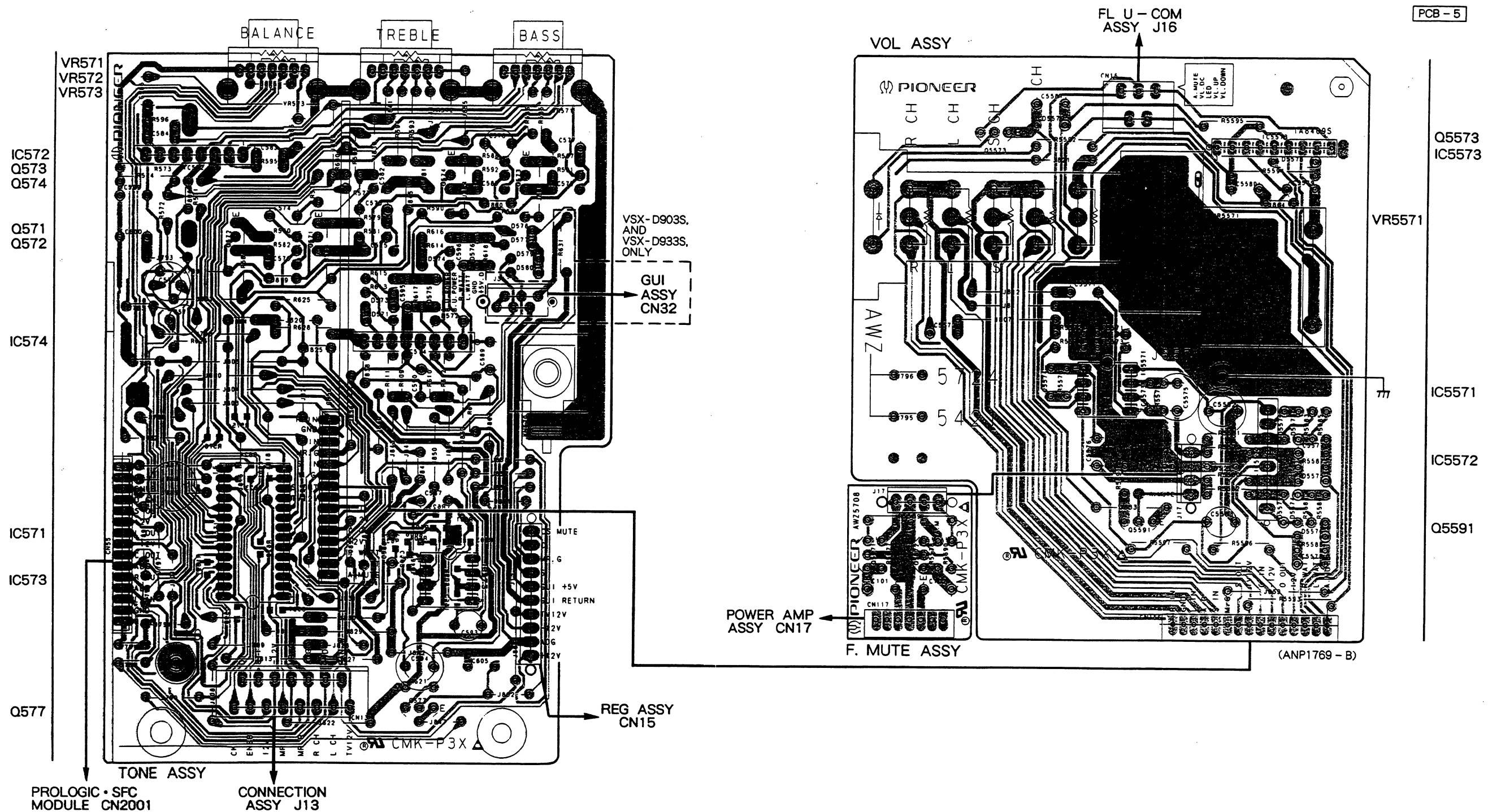
(AWZ5426:VSX-D703S, VSX-53, VSX-D603S AND VSX-D613S)

(AWZ5725:VSX-D633S)

VSX-D903S AND VSX-D933S ONLY

TONE ASSY,
VOL ASSY,
F. MUTE ASSY

SCH-6



• This diagram is viewed from the mounted parts side.



MODULE CNS001 PROLOGIC • SFC

A

A



- This diagram is viewed from the gray colored foil side
- This PCB is double sided. ~~Look around a PCB at...~~

D

[

VSX - D903S, VSX - D933S, VSX - 53, VSX - D703S,
VSX - D603S, VSX - D613S, VSX - D633S

3

5.7 PROLOGIC • SFC MODULE

A

A

PCB - 6

IC2001 IC2003 IC2006 IC2013 IC2014 IC2019 IC2010 IC2017 IC2008 IC2012 IC2018 IC2007 IC2015 G2001 G2002

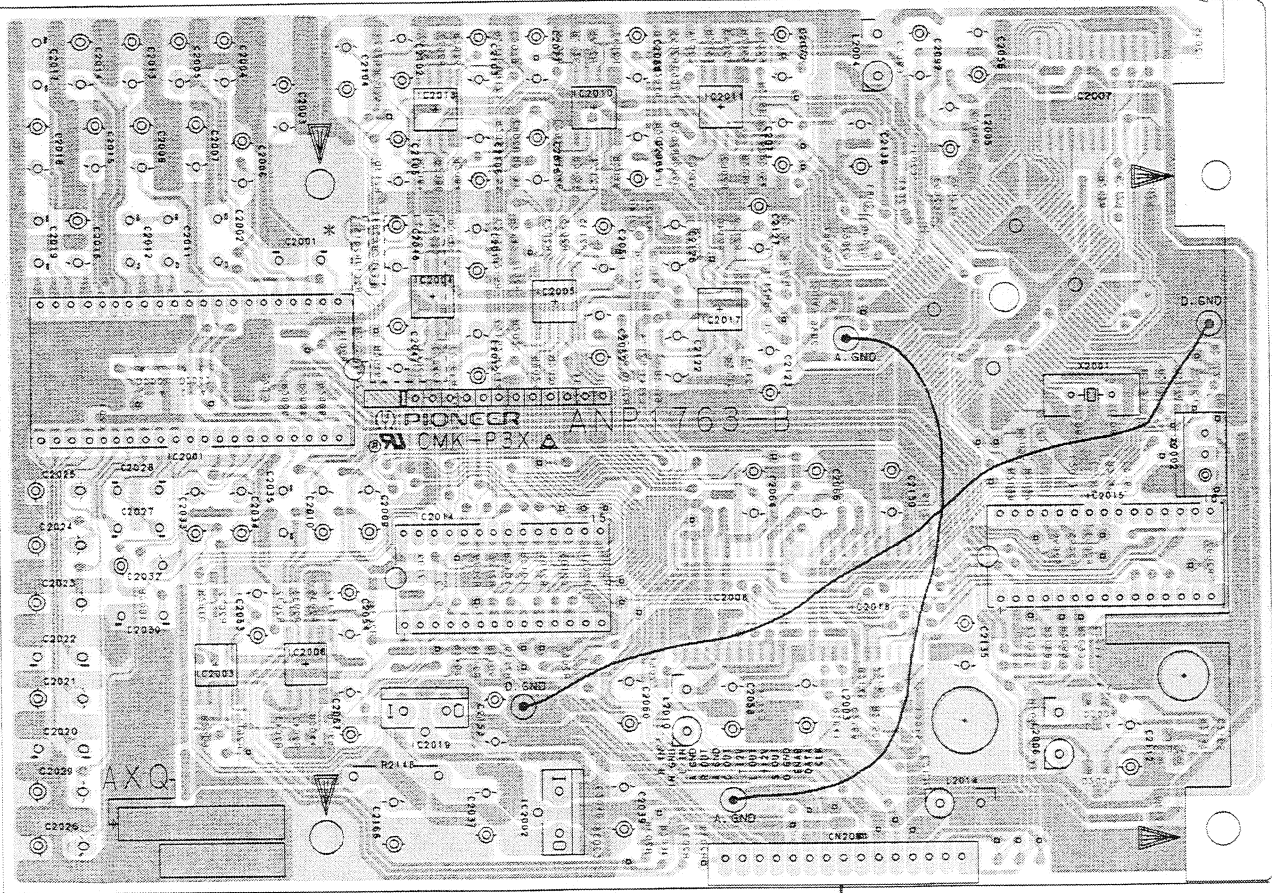
PROLOGIC • SFC MODULE

B

B

C

C



- This diagram is viewed from the pink colored foil side.
- This PCB is double sided.

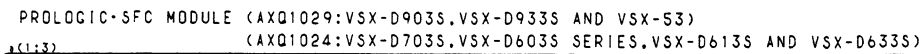
TONE ASSY
CN55

NOTE: Parts marked * are replaced as follows.
(PCB diagram shows for VSX-D703S, VSX-D603S, VSX-D613S and VSX-D633S.)

VSX-D703S, VSX-D603S, VSX-D613S AND VSX-D633S	VSX-D903S, VSX-D933S AND VSX-53
R2015	C2169
R2016	C2170
R2017	C2171
R2018	C2172
C2043	R2152
C2044	R2153
C2045	R2154
C2046	R2155

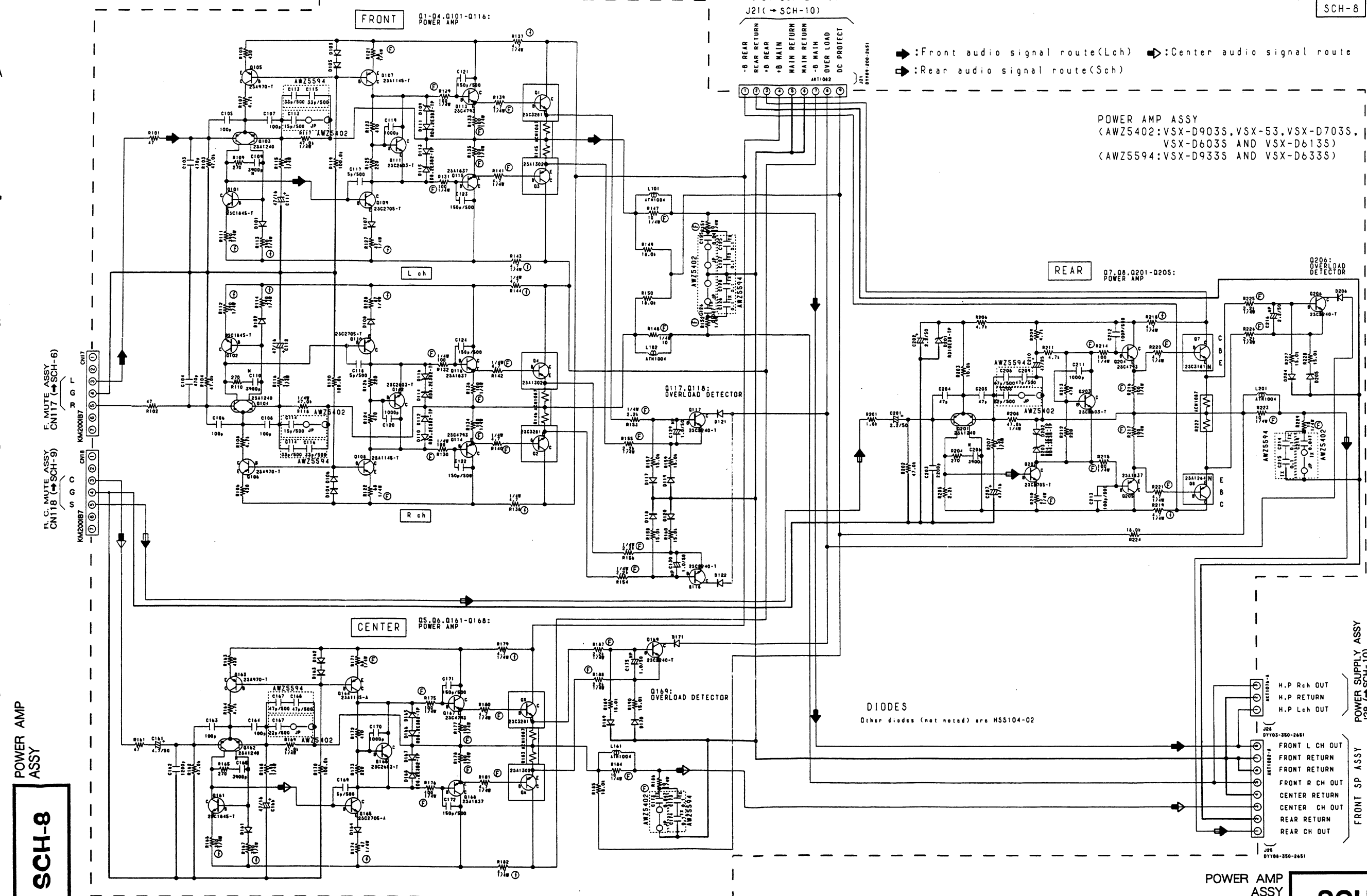
D

SCH-7



SCH-7

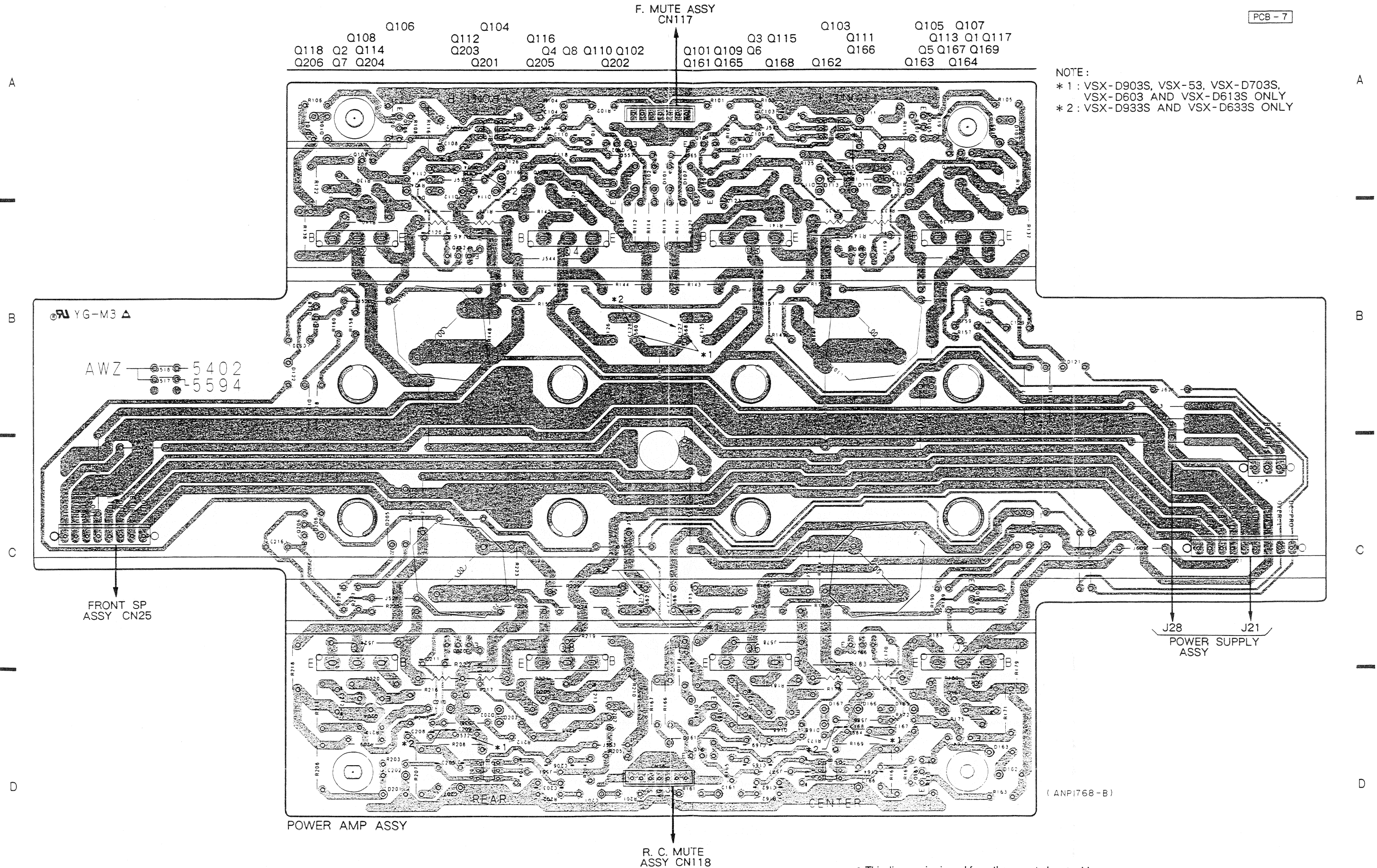
5.8 POWER AMP ASSY



SCH-8

POWER AMP ASSY
(AWZ5402: VSX-D903S, VSX-53, VSX-D703S,
VSX-D603S AND VSX-D613S)
(AWZ5594: VSX-D933S AND VSX-D633S)

SCH-8

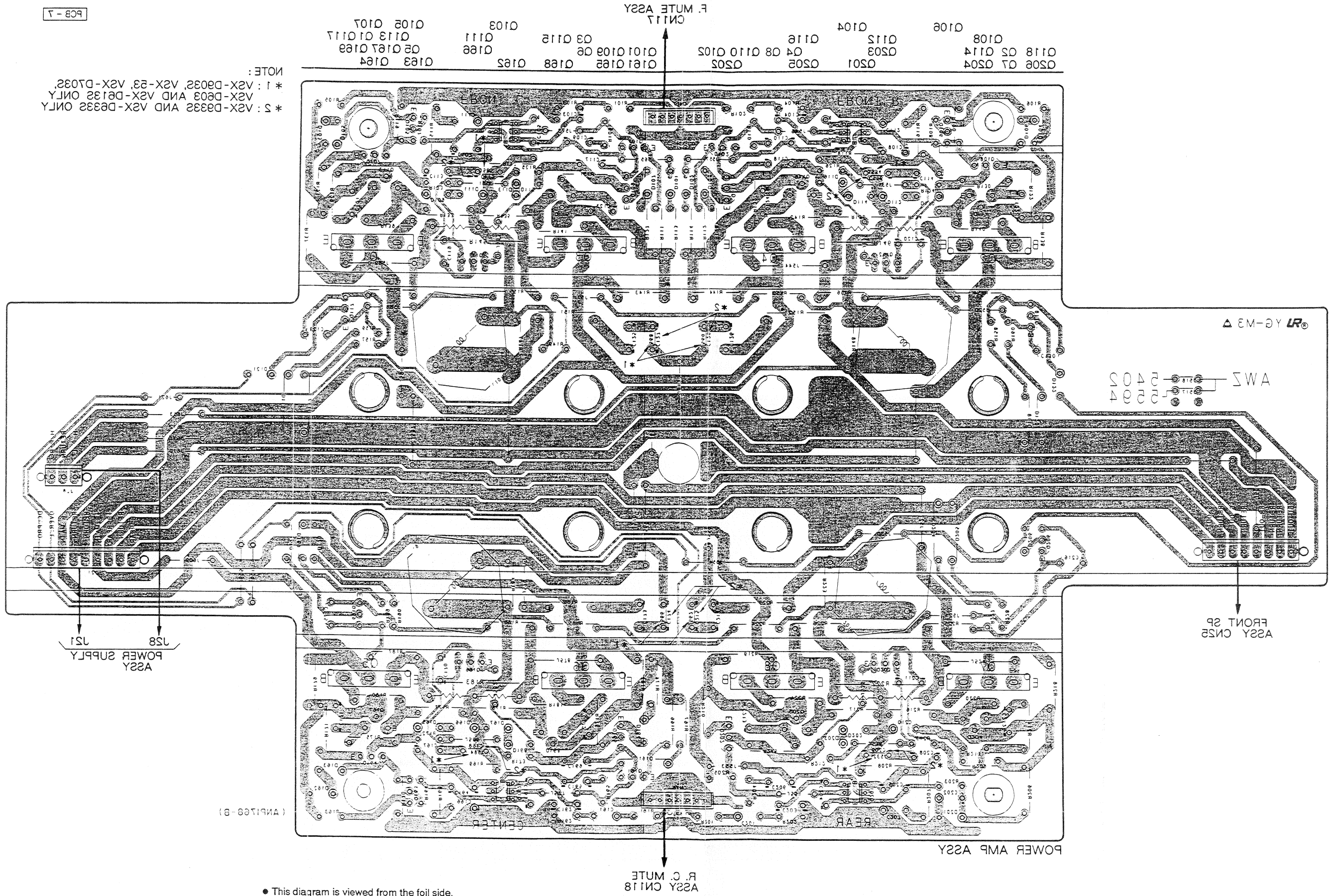


• This diagram is viewed from the mounted parts side.

V2X-D6132, V2X-D6032, V2X-D6332
V2X-D6032, V2X-D6332, V2X-D7032

PCB - 1

NOTE:
* 1 : V2X-D6032, V2X-D6332, V2X-D7032
V2X-D603 AND V2X-D6132 ONLY
* 2 : V2X-D6332 AND V2X-D6332 ONLY

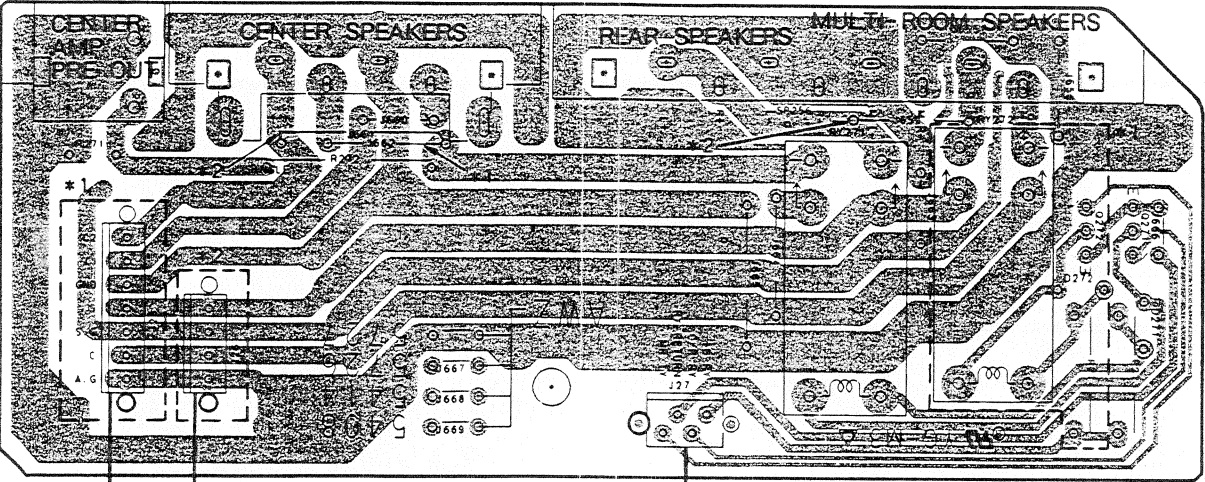


• This diagram is viewed from the foil side.

5.9 REG, R. C. MUTE, FRONT SP AND R. C. SP ASSEMBLIES

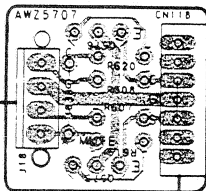
A

NOTE:
* 1 : VSX-D903S, VSX-D933S AND VSX-53 ONLY
* 2 : VSX-D703S, VSX-D603S, VSX-D613S AND
VSX-D633S ONLY



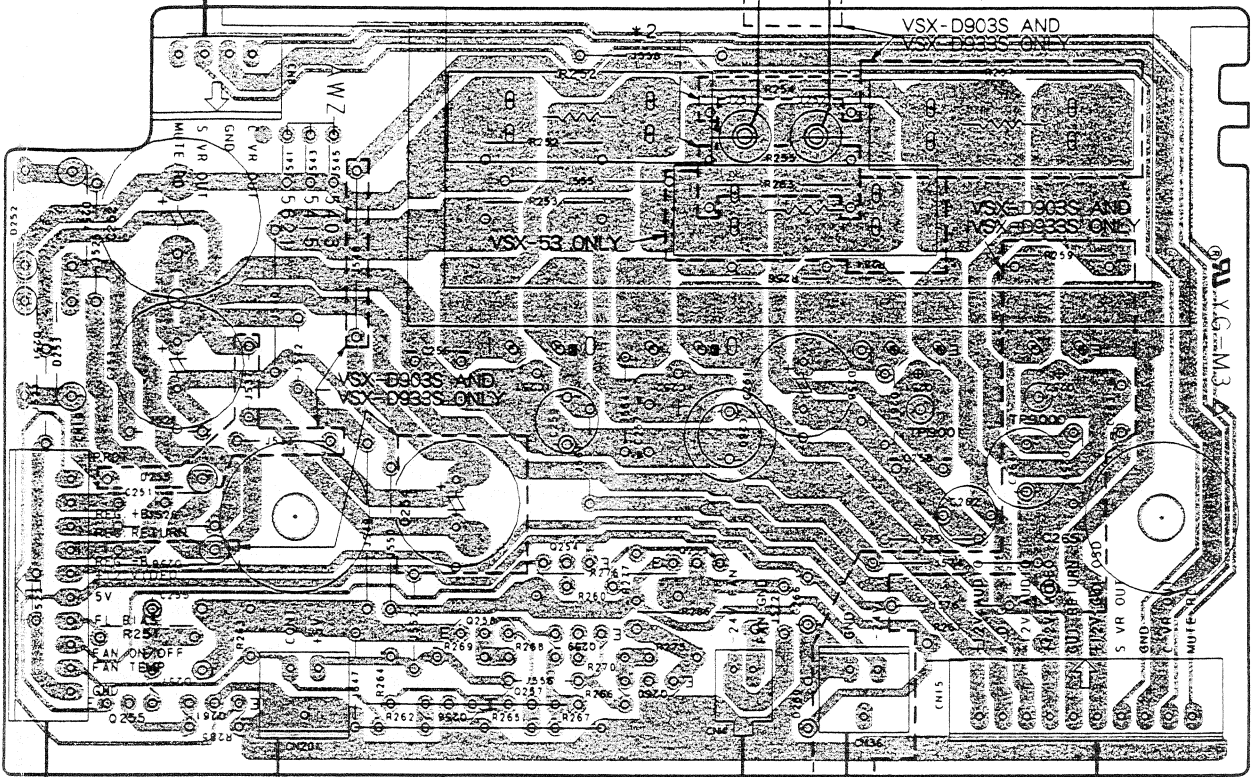
R. C. SP ASSY

R. C. MUTE
ASSY



POWER AMP
ASSY CN18

REG ASSY



PCB-8

Q255 Q261 IC251 Q254 Q256-Q260 IC252 Q253 FAN MOTOR FL U-COM ASSY J36 Q251 Q252 TONE ASSY J15

POWER SUPPLY
ASSY J19

CONNECTION
ASSY J201

FAN
MOTOR

FL U-COM
ASSY J36

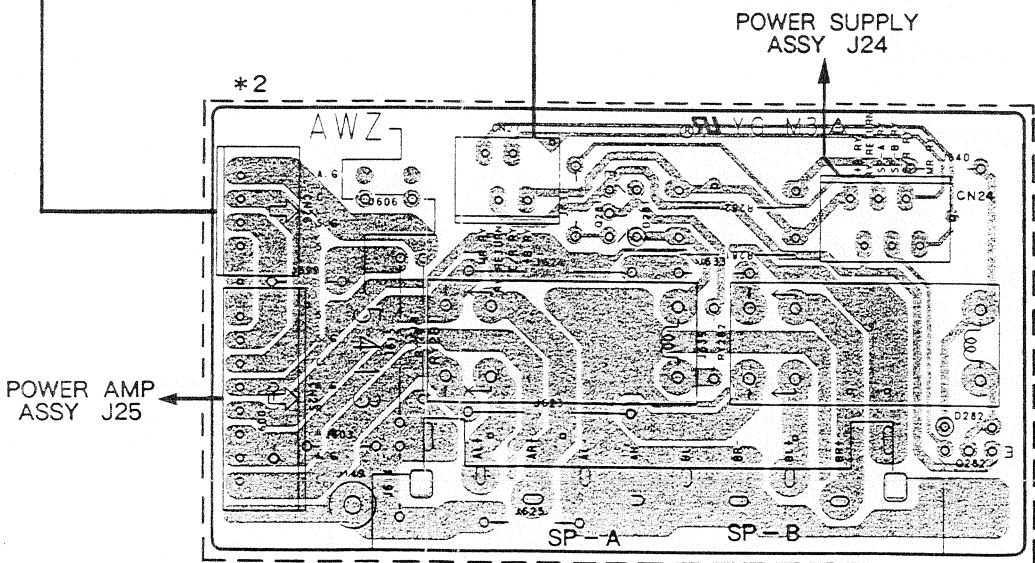
TONE ASSY
J15

B

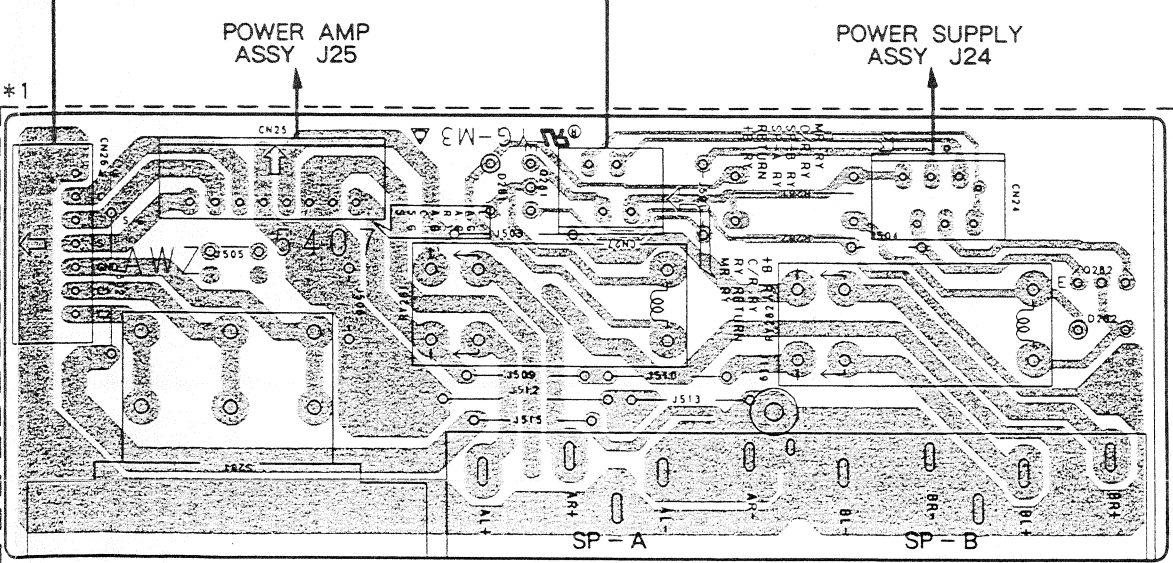
B

C

C



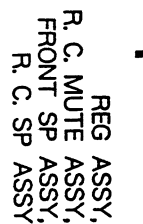
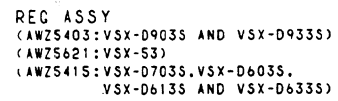
FRONT SP ASSY



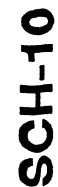
FRONT SP ASSY

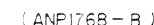
(ANP1768-B)

• This diagram is viewed from the mounted parts side.



5.10 POWER SUPPLY, SW, PRIM AND TRANS ASSEMBLIES



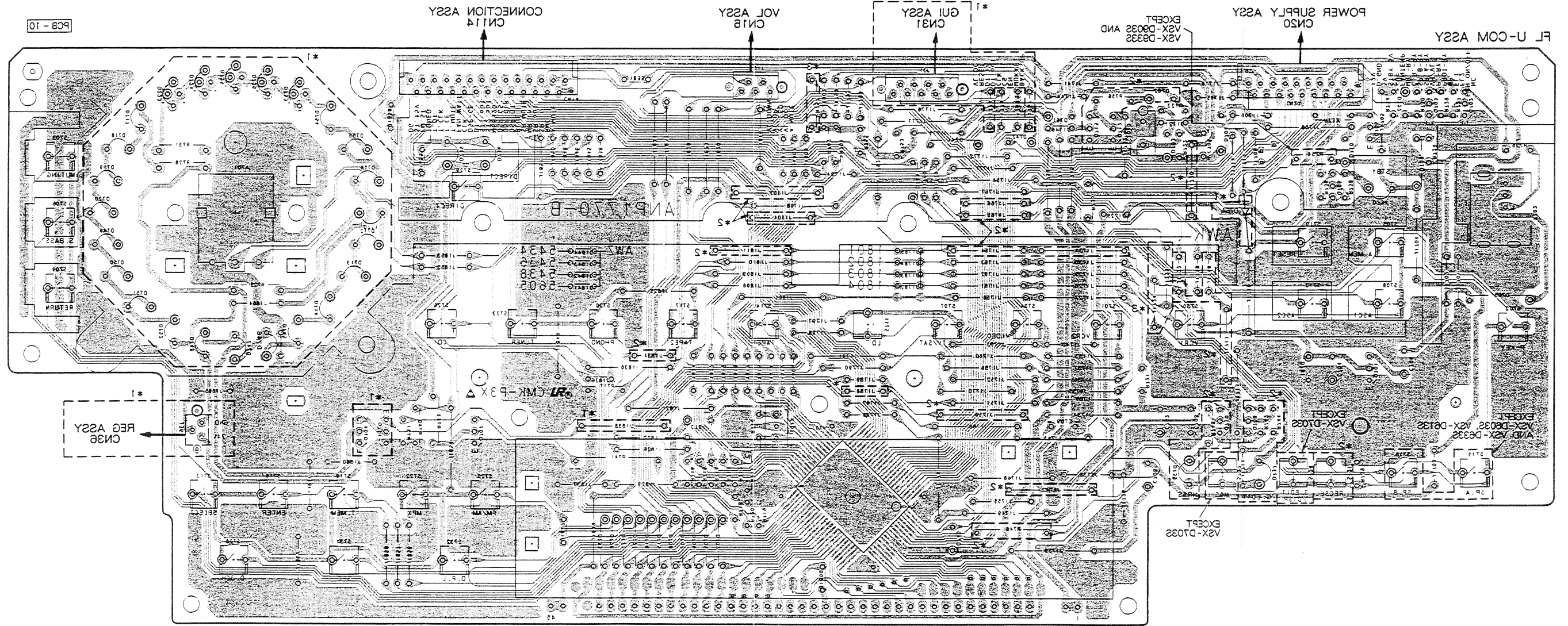


● This diagram is viewed from the mounted parts side.

Part No.	Description
AAX-193	220V label
AAX-192	240V label

V2X-D6132, V2X-D6032, V2X-D6332
V2X-D6032, V2X-D6332, V2X-D7032

FL U-COM ASSY



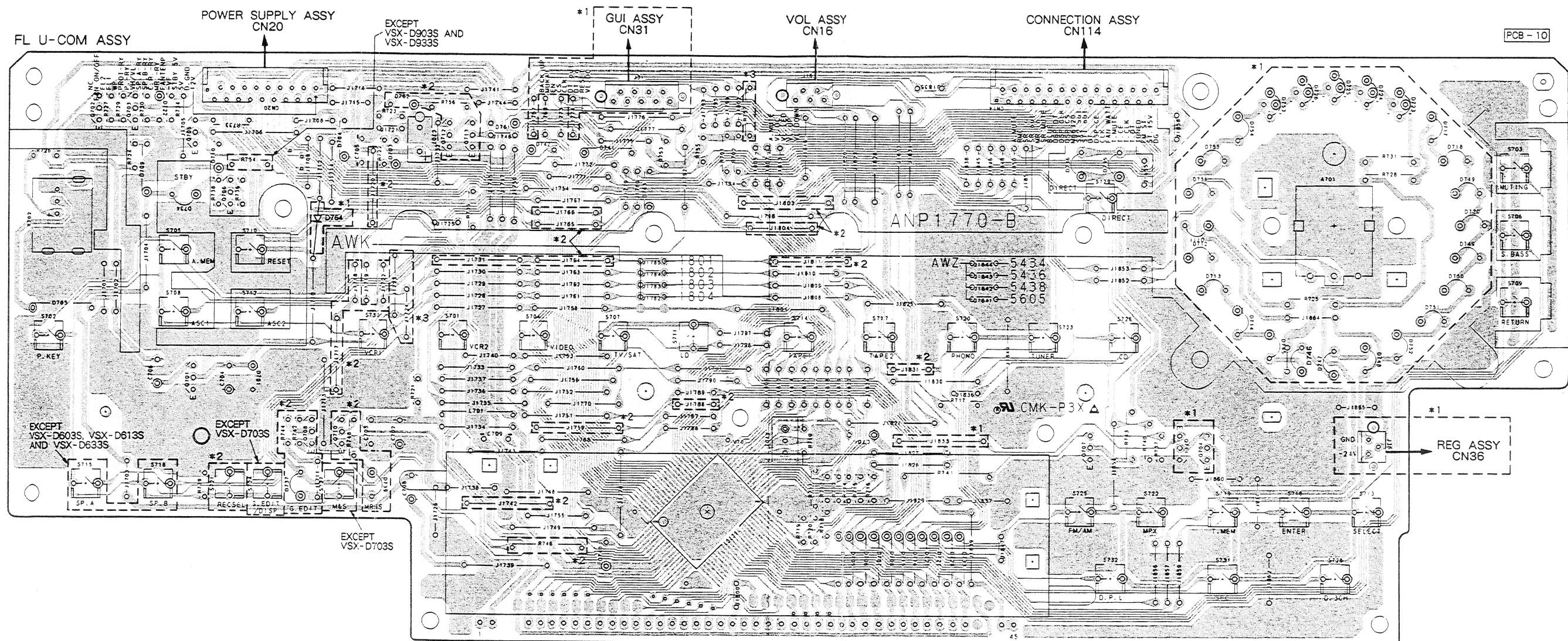
NOTE:
* 1: V2X-D6032 AND V2X-D6332 ONLY
* 2: V2X-D6032 AND V2X-D6332 ONLY
* 3: V2X-D6032, V2X-D6132 AND V2X-D6332 ONLY

• This diagram is viewed from the foil side.

5.11 FL U-COM ASSY

A

A



B

B

C

C

Q702 Q703 Q705 Q706 Q708 Q710 Q712 Q713 IC701 Q707 Q711 Q704

NOTE;
*1: VSX-D903S AND VSX-D933S ONLY
*2: VSX-D903S, VSX-D933S AND VSX-53 ONLY
*3: VSX-D603S, VSX-D613S AND VSX-D633S ONLY

● This diagram is viewed from the mounted parts side.

D

D

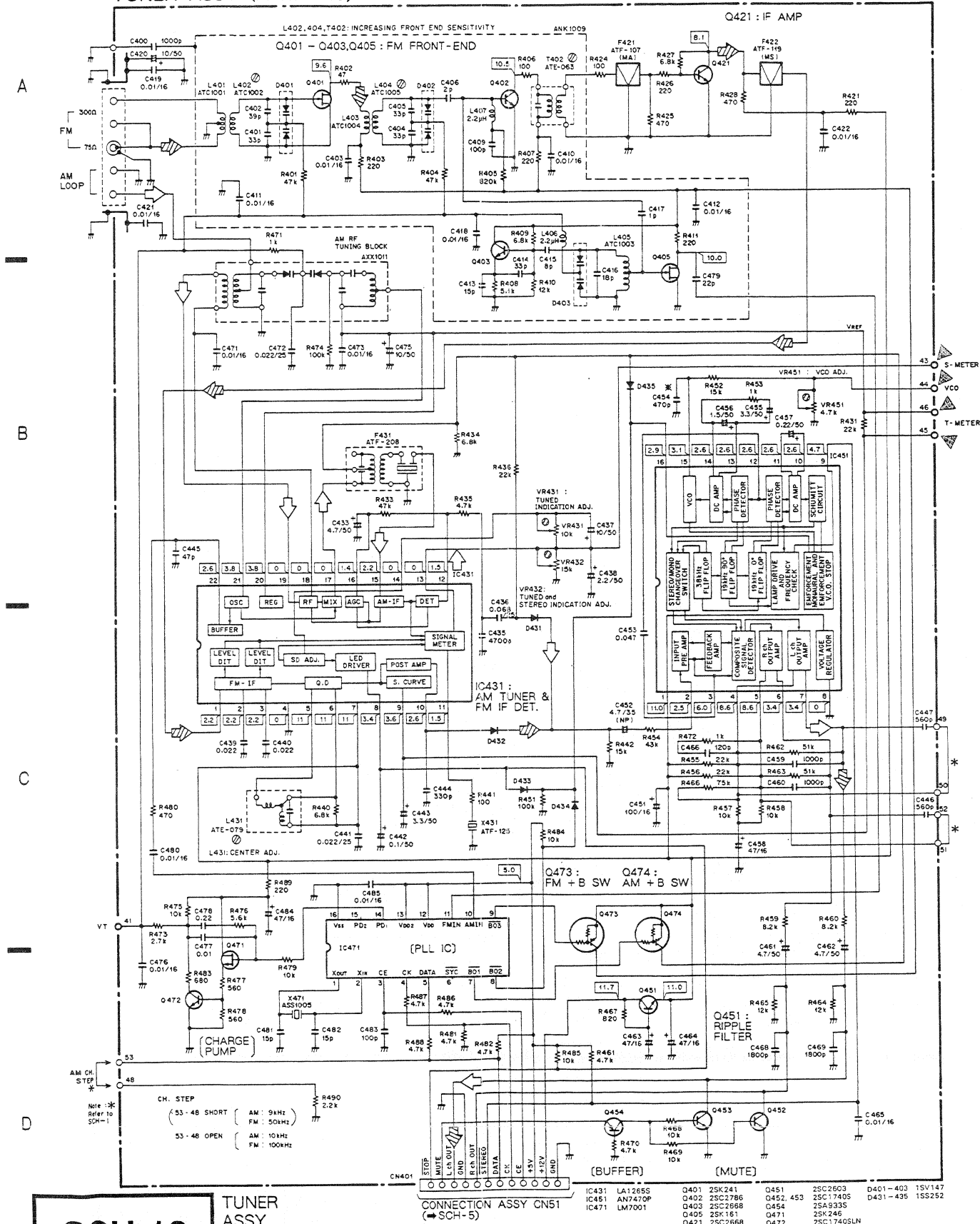


5.12 TUNER ASSY

TUNER ASSY (AWE1140)

FM signal route (L ch)
AM signal route (L ch)

SCH-12



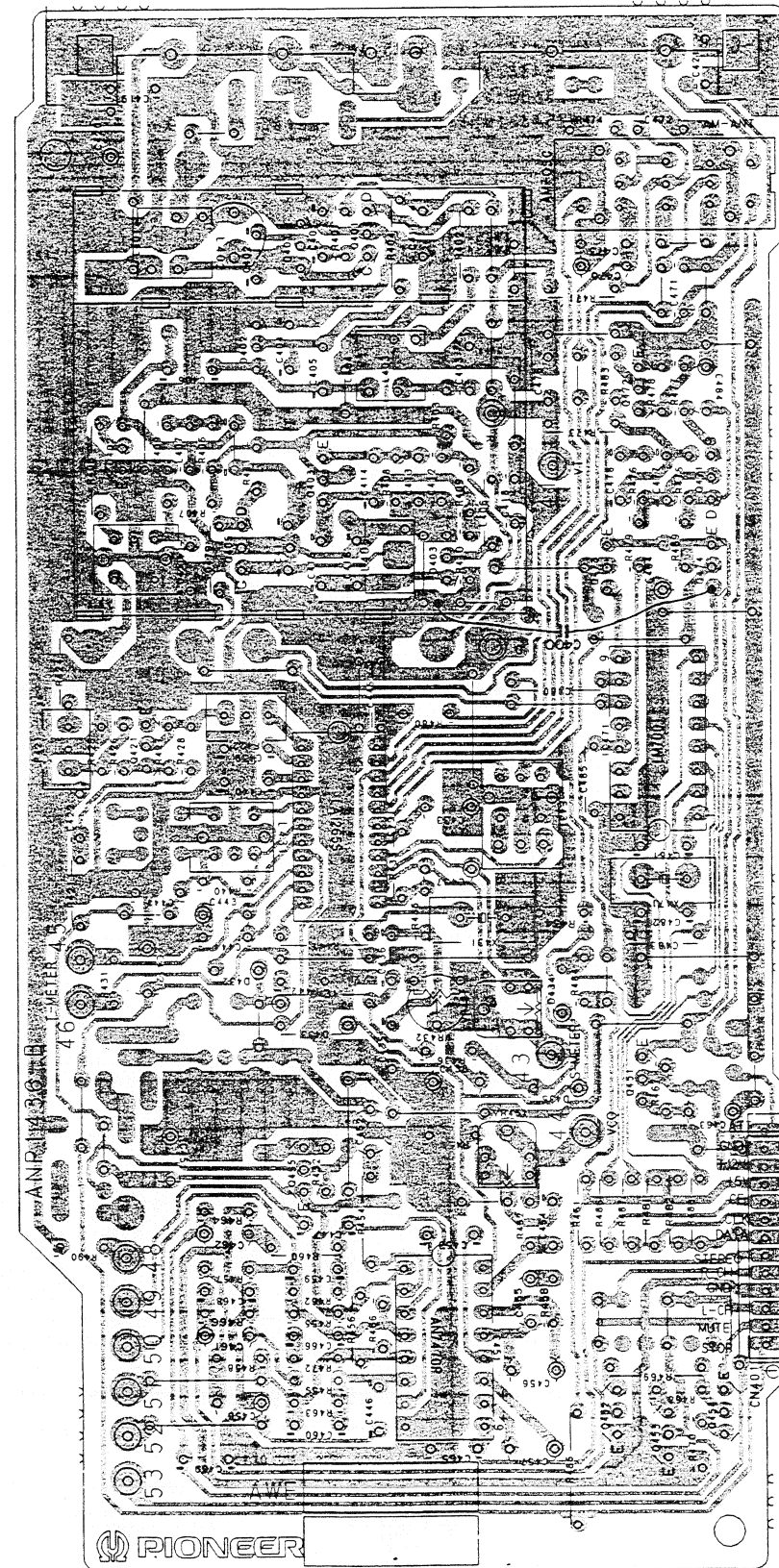
SCH-12

TUNER
ASSY

CONNECTION ASSY CN51
(SCH-5)

TUNER ASSY

PCB-11



• This diagram is viewed from the mounted parts side.



**VSX - D903S, VSX - D933S, VSX - 53, VSX - D703S,
VSX - D603S, VSX - D613S, VSX - D633S**

6. PCB PARTS LIST

NOTES:

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "©" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits(any digit apart from 0), such as 560 ohm and 47k ohm(tolerance is shown by J=5%, and K=10%).

560 Ω $\rightarrow$ 56 $\times 10^1$ $\rightarrow$ 561..... RD1/8PM $\overline{561}J$
47k Ω $\rightarrow$ 47 $\times 10^3$ $\rightarrow$ 473..... RD1/4PS $\overline{473}J$
0.5 Ω $\rightarrow$ 0R5 RN2H $\overline{0R5}K$
1 Ω $\rightarrow$ 010..... RS1P $\overline{010}K$

Ex.2 When there are 3 effective digits(such as in high precision metal film resistors).

5.62k Ω $\rightarrow$ 562 $\times 10^1$ $\rightarrow$ 5621 RN1/4PC $\overline{5621}F$

● FOR VSX-D703S/KU AND VSX-D603S/KU

Mark	No.	Description	Part No.
LIST OF ASSEMBLIES			
NSP		TUNER ASSY	AWE1140
NSP		POWER SUPPLY AMP ASSY	AWK1794
		└POWER AMP ASSY	AWZ5402
		└PRIM ASSY	AWZ5405
NSP		└TRANS ASSY	AWZ5406
NSP		└FRONT SP ASSY	AWZ5413
NSP		└R. C. SP ASSY	AWZ5414
		└REG ASSY	AWZ5415
		└POWER SUPPLY ASSY	AWZ5437
NSP		└R. C. MUTE ASSY	AWZ5707
NSP		SMALL SIGNAL ASSY(VSX-D703S)	AWK1797
NSP		SMALL SIGNAL ASSY(VSX-D603S)	AWK1799
		└VOL ASSY	AWZ5421
		└AUDIO FUNCTION ASSY	AWZ5422
		└A/V FUNCTION ASSY(VSX-D703S)	AWZ5423
		└A/V FUNCTION ASSY(VSX-D603S)	AWZ5429
		└VIDEO FUNCTION ASSY(VSX-D703S)	AWZ5424
		└VIDEO FUNCTION ASSY(VSX-D603S)	AWZ5430
		└CONNECTION ASSY(VSX-D703S)	AWZ5425
		└CONNECTION ASSY(VSX-D603S)	AWZ5428
		└TONE ASSY	AWZ5426
		└SR ASSY	AWZ5433
NSP		└F. MUTE ASSY	AWZ5708
NSP		FRONT ASSY(VSX-D703S)	AWK1802
NSP		FRONT ASSY(VSX-D603S)	AWK1803
NSP		└F. VIDEO ASSY(VSX-D703S ONLY)	AWZ5435
		└FL U-COM ASSY(VSX-D703S)	AWZ5605
		└FL U-COM ASSY(VSX-D603S)	AWZ5436
		PROLOGIC-SFC MODULE	AXQ1024

● FOR VSX-D903S/KU AND VSX-53/KU/CA

Mark	No.	Description	Part No.
LIST OF ASSEMBLIES			
NSP		TUNER ASSY	AWE1140
NSP		POWER SUPPLY AMP ASSY(VSX-D903S)	AWK1789
NSP		POWER SUPPLY AMP ASSY(VSX-53)	AWK1839
		└POWER AMP ASSY	AWZ5402
		└REG ASSY(VSX-D903S)	AWZ5403
		└REG ASSY(VSX-53)	AWZ5621
		└POWER SUPPLY ASSY	AWZ5404
		└PRIM ASSY	AWZ5405
NSP		└TRANS ASSY	AWZ5406
NSP		└FRONT SP ASSY	AWZ5407
NSP		└R. C. SP ASSY	AWZ5408
NSP		└SW ASSY	AWZ5412
NSP		└R. C. MUTE ASSY	AWZ5707
NSP		SMALL SIGNAL ASSY(VSX-D903S)	AWK1796
NSP		SMALL SIGNAL ASSY(VSX-53)	AWK1800
		└AUDIO FUNCTION ASSY(VSX-D903S)	AWZ5416
		└AUDIO FUNCTION ASSY(VSX-53)	AWZ5728
		└A/V FUNCTION ASSY	AWZ5417
		└VIDEO FUNCTION ASSY(VSX-D903S)	AWZ5418
		└VIDEO FUNCTION ASSY(VSX-53)	AWZ5431
		└CONNECTION ASSY(VSX-D903S)	AWZ5419
		└CONNECTION ASSY(VSX-53)	AWZ5432
		└TONE ASSY(VSX-D903S)	AWZ5420
		└TONE ASSY(VSX-53)	AWZ5426
		└VOL ASSY	AWZ5421
NSP		└F. MUTE ASSY	AWZ5708
NSP		FRONT ASSY(VSX-D903S)	AWK1801
NSP		FRONT ASSY(VSX-53)	AWK1804
		└FL U-COM ASSY(VSX-D903S)	AWZ5434
		└FL U-COM ASSY(VSX-53)	AWZ5438
NSP		└F. VIDEO ASSY	AWZ5435
NSP		SR & S. TERMINAL ASSY(VSX-D903S)	AWQ1024
NSP		SR & S. TERMINAL ASSY(VSX-53)	AWQ1026
NSP		GUI ASSY(VSX-D903S ONLY)	AWQ1025
		PROLOGIC-SFC MODULE	AXQ1029

**VSX - D903S, VSX - D933S, VSX - 53, VSX - D703S,
VSX - D603S, VSX - D613S, VSX - D633S**

Mark No.	Description	Part No.
TUNER ASSY (AWE1140)		
SEMICONDUCTORS		
IC451		AN7470P
IC431		LA1265S
IC471		LM7001
Q454		2SA933S
Q452, Q453		2SC1740S
Q472		2SC1740SLN
Q451		2SC2603
Q403, Q421		2SC2668
Q402		2SC2786
Q405		2SK161
Q401		2SK241
Q471		2SK246
Q473, Q474		RN2201
D431-D435		1SS252
D401-D403		1SV147

COILS, FILTERS AND TRANSFORMER

L401	ATC1001
L402	ATC1002
L405	ATC1003
L403	ATC1004
L404	ATC1005
T402	ATE-063
L431	ATE-079
F421	ATF-107
F422	ATF-119
F431	ATF-208
L406, L407	LAU2R2M

CAPACITORS

C454 (470pF, 50V)	ACE1039
C466	CCCSL121J50
C417	CCDCH010C50
C406	CCDCH020C50
C415	CCDCH080D50
C413, C481, C482	CCDCH150J50
C414	CCDCH330J50
C401, C404, C405	CCDRH330J50
C402	CCDRH390J50
C416	CCDTH180J50
C479	CCPUSL220J50
C445	CCPUSL470J50
C452	CEANP4R7M35
C442	CEAS0R1M50
C420, C437, C475	CEAS100M50
C451	CEAS101M16
C456	CEAS1R5M50
C438	CEAS2R2M50
C443, C455	CEAS3R3M50
C458, C463, C464, C484	CEAS470M16
C433, C461, C462	CEAS4R7M50
C457	CEASR22M50
C478	CFTXA224J50
C477	CKCYF103Z50
C439, C440	CKCYF223Z50

Mark No.	Description	Part No.
C435		CKCYF472Z50
C453		CKCYF473Z50
C436		CKCYX683M25
C400		CKDYF102Z50
C409, C483		CKPUYB101K50
C444		CKPUYB331K50
C441, C472		CKPUYF223Z25
C403, C410-C412, C418, C419		CKPUYY103N16
C421, C422, C465, C471, C473		CKPUYY103N16
C476, C480, C485		CKPUYY103N16
C459, C460		CQMA102J50
C468, C469		CQMA182J50
C446, C447		CQMA561K50
RESISTORS		
VR451 (4.7k Ω)		ACP1042
VR431 (10k Ω)		ACP1043
VR432		VRTS6VS153
Other Resistors		RD1/8PM□□□□

OTHERS

ANTENNA TERMINAL 4-P	AKA1014
X471 CRYSTAL RESONATOR (7.200MHz)	ASS1005
X431 CERAMIC FILTER	ATF-125
AM RF TUNING BLOCK	AXX1011
CN401 12P SOCKET	KP2001A12L

POWER AMP ASSY (AWZ5402)

SEMICONDUCTORS

Q107, Q108, Q164	2SA1145
Q103, Q104, Q162, Q201	2SA1240
Q115, Q116, Q168, Q205	2SA1837
Q105, Q106, Q163	2SA970
Q101, Q102, Q161	2SC1845
Q117, Q118, Q169, Q206	2SC2240
Q111, Q112, Q166, Q203	2SC2603
Q109, Q110, Q165, Q202	2SC2705
Q113, Q114, Q167, Q204	2SC4793
D101-D108, D111-D114	HSS104-02
D117-D122, D161-D164	HSS104-02
D166, D167, D169-D171	HSS104-02
D204-D206	HSS104-02
D201	RD10ESB
D202, D203	RD4. 3ESEB
D109, D110, D115, D116, D165	RD8. 2ESEB2
D168	RD8. 2ESEB2

COILS

L101, L102, L161, L201 (0.7 μ H)	ATH1004
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CAPACITORS

C117, C118, C169	CCCSL050C500
C105-C108, C163, C164	CCCSL101J50
C212, C213	CCCSL101K500
C113, C114	CCCSL150K500
C121-C124, C171, C172	CCCSL151K500
C167, C208	CCCSL220K500
C204, C205	CCCSL470J50
C129, C130, C175	CEANP010M50
C216	CEANP2R2M50
C201, C202	CEAS2R2M50

**VSX - D903S, VSX - D933S, VSX - 53, VSX - D703S,
VSX - D603S, VSX - D613S, VSX - D633S**

Mark	No.	Description	Part No.
	C111, C112, C166, C207		CEAS470M16
	C210		CEAS470M25
	C161		CEAS4R7M50
	C125, C126, C173, C214		CFTXA473J50
	C119, C120, C170, C211		CKCYB102K50
	C162		CKCYB122K50
	C203		CKCYB222K50
	C103, C104		CKCYB471K50
	C109, C110, C165, C206		CQMA392J50

RESISTORS

R145, R146, R183, R222 (0.33Ω, 5W)	ACN1087
R115, R116, R168, R207	RD1/4PM152J
R117, R118, R169, R208	RD1/4PM473J
R147, R148, R151, R152, R184	RD1/4PMF100J
R186, R223, R229	RD1/4PMF100J
R129-R136, R175-R178	RD1/4PMF101J
R214-R217	RD1/4PMF101J
R153-R156, R187, R188	RD1/4PMF222J
R225, R226	RD1/4PMF222J
R139-R142, R180, R181	RD1/4PMF4R7J
R220, R221	RD1/4PMF4R7J
R121, R122, R171	RD1/4PMF680J
R111-R114, R166, R167	RFA1/4PS391J
R127, R128, R174, R210	RFA1/4PS470J
R137, R138, R143, R144, R179	RFA1/4PS4R7J
R182, R218, R219	RFA1/4PS4R7J
Other Resistors	RD1/8PM□□□J

OTHERS

CABLE HOLDER(3P)	AKT1076
CABLE HOLDER(8P)	AKT1081
CABLE HOLDER(9P)	AKT1082
CN17, CN18	7P PLUG
	KM2001B7

PRIM ASSY (AWZ5405)

SEMICONDUCTORS

IC51	NJM78M56FAS
Q51	XDC143ES
D51	HSS104-02
D54	HZS6A1L
D53	S1WB20
D52	S5566

COIL

△ L51	ATF1006
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TRANSFORMER

△ T51	ATT1011
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RELAY

△ RY51	ASR1036
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CAPACITORS

△ C51, C52 (0.01μ, AC400V)	ACG1002
C53	CEAS102M25
C55	CEAS470M16
C54	CKCYB103K50

Mark	No.	Description	Part No.
RESISTORS			
△	R52 (2.2MΩ, 1/2W)		ACN-208
△	R53		RD1/4PMF332J
△	R51		RD1/4PMF4R7J
	Other Resistors		RD1/8PM□□□J

OTHERS

AC OUTLET(3P)	AKP1053
CN22 CONNECTOR(4P)	KPC4

TRANS ASSY (AWZ5406)

RESISTORS

△ R379, R380	RFA1/4PL4R7J
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OTHERS

CABLE HOLDER(8P)	AKT1081
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FRONT SP ASSY (AWZ5413)

SEMICONDUCTORS

Q281, Q282	XDC143ES
D281, D282	HSS104-02

RELAYS

RY281, RY282	ASR-112
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RESISTORS

R281, R282	RS1PMF821J
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OTHERS

CN8004	SPEAKER TERMINAL 8-P	AKE1048
CN26	CONNECTOR(4P)	KPC4
CN25	CONNECTOR(8P)	KPC8
CN27	CONNECTOR(4P)	KPE4
CN24	CONNECTOR(6P)	KPE6

R. C. SP ASSY (AWZ5414)

SEMICONDUCTORS

Q271	XDC143ES
D271	HSS104-02

RELAY

RY271	ASR-112
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RESISTORS

R273	RS1PMF821J
Other Resistors	RD1/8PM□□□J

OTHERS

CN8007	PIN JACK 1-P	AKB1139
	SPEAKER TERMINAL 4-P	AKE-109
CN8016	SPEAKER TERMINAL 2-P	AKE1041
	CABLE HOLDER(4P)	AKT1077

**VSX - D903S, VSX - D933S, VSX - 53, VSX - D703S,
VSX - D603S, VSX - D613S, VSX - D633S**

Mark	No.	Description	Part No.
REG ASSY (AWZ5415)			
SEMICONDUCTORS			
	IC251		NJM78M12FAS
	IC252		NJM79M12FA
	Q256, Q257, Q261		2SA1048
	Q258		2SC2458
	Q251		2SC4793
	Q253, Q260		2SD438
	Q254, Q255, Q259		XDA124ES
	D257		HZS22-3L
	D260		HZS6B2L
	D258, D261		RD13ESB3
	D251-D254		S5566
CAPACITORS			
	C251 (0.01 μ , AC250V)		ACG1005
	C259, C260, C262		CEAS101M25
	C261		CEAS102M16
	C253		CEAS102M35
	C252		CEAS222M35
	C255, C266		CEAS470M25
	C256-C258		CKCYF103Z50
RESISTORS			
	R256		RD1/4PMF122J
	R251		RFA1/4PS470J
	R286		RS1PMF100J
	R261		RS1PMF121J
	R253		RS1PMF220J
	R276		RS2LMF151J
	R254, R255, R283		RS2LMF180J
	R252		RT5PD180K
	Other Resistors		RD1/8PM□□□J
OTHERS			
	SCREW		ABA-298
	CN15, CN19 CONNECTOR (10P)		KPC10
	CN8018 CONNECTOR (4P)		KPC4
	CN201 CONNECTOR (3P)		KPE3

Mark	No.	Description	Part No.
POWER SUPPLY ASSY (AWZ5437)			
SEMICONDUCTORS			
	Q366		2SA1515
	Q362, Q364, Q365, Q368		2SC2458
	Q367		XDA143ES
	Q363		XDC124ES
	Q361		XDC143ES
	D362		D3SBA20
	D351, D352		D5SB20F
	D361, D366, D369		HSS104-02
	D367		HZS5BLL
	D365		RD6. 2ESB
	D363, D364		S5566
RELAYS			
	RY361, RY362		ASR1027
	RY363		ASR1035
CAPACITORS			
	C351, C352, C361 (0.01 μ , AC250V)		ACG1005
	C362, C363 (5600 μ , 50V)		ACH1145
	C353 (12000 μ , 80V)		ACH1263
	C354 (12000 μ , 80V)		ACH1264
	C367		CEAS101M35
	C364		CEAS220M50
	C365		CEAS221M16
	C366		CEAS330M25
	C368		CKCYF103Z50
RESISTORS			
	R362		RD1/2PMF102J
	R366		RD1/4PMF2R2J
	R368		RD1/4PMF822J
	R361		RS1PMF471J
	R372		RS1PMF821J
	R373, R374		RS2LMF331J
	Other Resistors		RD1/8PM□□□J
OTHERS			
	HEADPHONE JACK		AKN1002
	CN20 18P SOCKET		AKP1102
	CABLE HOLDER (3P)		AKT1076
	CABLE HOLDER (4P)		AKT1077
	CABLE HOLDER (9P)		AKT1082
	CABLE HOLDER (10P)		AKT1083
	CN23 JUMPER CONNECTOR (8P)		KPC8
R. C. MUTE ASSY (AWZ5707)			
SEMICONDUCTORS			
	Q575, Q576		2SC2878
RESISTORS			
	All Resistors		RD1/8PM□□□J
OTHERS			
	CABLE HOLDER (4P)		AKT1077
	CN118 7P SOCKET		KP2001B7L

**VSX - D903S, VSX - D933S, VSX - 53, VSX - D703S,
VSX - D603S, VSX - D613S, VSX - D633S**

Mark No. Description Part No.
VOL ASSY (AWZ5421)

SEMICONDUCTORS

IC5571	M5220P
IC5573	TA8409S
IC5572	XRA4558N-P
Q5591	2SA1115
Q5573	XDC124ES
D5571-D5574	HSS104-02
D5578	RD3. 3ESB2
D5579	RD5. 1ESB1
D5575, D5576	RD5. 1ESB2

CAPACITORS

C5573, C5574	CCCCH330J50
C5579	CEANP101M10
C5581-C5583	CEAS100M50
C5580	CEAS101M16
C5571, C5572, C5575, C5576	CEAS4R7M50
C5577, C5578	CEASR47M50

RESISTORS

R5593	RD1/2PM470J
R5596, R5597	RD1/4PM221J
R5595	RD1/4PM561J
R5592	RD1/4PM621J
VR5571	ACX1095
Other Resistors	RD1/8PM□□□J

OTHERS

CABLE HOLDER(4P)	AKT1077
CN156 15P SOCKET	KP2001B15L
CN16 CONNECTOR(5P)	KPE5

AUDIO FUNCTION ASSY (AWZ5422)

SEMICONDUCTORS

IC404	M5220P
IC401	TC9164N
IC403	XRA4558-P

CAPACITORS

C447	CCSQCH102J50
C419, C420	CCSQCH221J50
C417, C418	CCSQCH681J50
C423, C424	CCSQSL101J50
C415, C416	CEAS100M50
C431, C432	CEAS101M16
C433, C434, C439, C440	CEAS2R2M50
C421, C422	CEAS470M25
C445, C446	CEAS4R7M50
C435, C436	CKSQYB103K50
C1400, C429, C430, C441, C444	CKSQYF103Z50
C427, C428	CQMA242J50
C425, C426	CQMA822J50

RESISTORS

All Resistors	RS1/10S□□□J
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OTHERS

PIN JACK(6P)	AKB1121
CN8207 PIN JACK(6P)	AKB1129
CABLE HOLDER(11P)	AKT1084
CN152 13P SOCKET	KP2001B13L

Mark No. Description Part No.
**A/V FUNCTION ASSY
(AWZ5423 and AWZ5429)**

SEMICONDUCTOR

IC451	TC9163N
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CAPACITORS

C487	CCSQCH102J50
C481, C482	CEAS470M25
C475, C476	CKSQYB103K50
C1450, C483, C484	CKSQYF103Z50

RESISTORS

All Resistors	RS1/10S□□□J
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OTHERS

PIN JACK(4P) (AWZ5423 ONLY)	AKB1101
PIN JACK(4P)	AKB1124
CN2 PLUG 3-P (AWZ5423 ONLY)	KM250MA3L
CN153 10P SOCKET	KP2001B10L
CN11 L-CONNECTOR(11P)	KPD11L
CN98 PIN JACK(6P) (AWZ5429 ONLY)	AKB1129

VIDEO FUNCTION ASSY (AWZ5424)

SEMICONDUCTORS

IC502	LA7951
IC507	M50554-003SP
IC1502	M66320FP
IC506	MM1067XD
IC501	NJM2233BLA

IC1503	UPC78L05J
Q504	2SA1048
Q505-Q507	2SA1115
Q508	2SC2412K
Q503	2SC2458

Q501, Q502, Q510	XDC124ES
D505, D506	1SS352
D501, D502	HSS104-02

COILS

L506	LAU150J
L507, L508	LAU270J
L501, L502, L509-L511	LAU680J

CAPACITORS

TC501	ACM-020
C558, C559, C562	CCSQCH050C50
C540, C546	CCSQCH101J50
C1526	CCSQCH102J50
C542, C544	CCSQCH150J50
C549, C551	CCSQCH220J50
C535	CCSQCH221J50
C543	CCSQCH330J50
C1529	CCSQCH331J50
C534	CCSQCH471J50

C532	CCSQCH561J50
C526, C530, C531	CEAS010M50
C527, C547	CEAS100M50
C1506	CEAS101M10
C507	CEAS101M16

**VSX - D903S, VSX - D933S, VSX - 53, VSX - D703S,
VSX - D603S, VSX - D613S, VSX - D633S**

Mark	No.	Description	Part No.
	C537		CEAS2R2M50
	C501-C506, C509, C511, C538		CEAS470M25
	C552, C553, C557		CEAS470M25
	C563		CEAS471M10
	C560, C561		CEAS471M6
	C536		CEASR47M50
	C1524		CEJA100M16
	C1505, C545		CKSQYB102K50
	C533		CKSQYB332K50
	C1507, C1521, C508, C510, C528		CKSQYF103Z50
	C539, C548, C550, C554-C556		CKSQYF103Z50
	C541		CKSQYF104Z50
	C529		CKSQYF473Z50

RESISTORS

R541, R542	RD1/2PM331J
R548	RD1/2PM271J
R1504	RD1/4PM680J
Other Resistors	RS1/10S□□□J

OTHERS

CN8111	PIN JACK (2P)	AKB1118
	PHONO JACK 2-P	AKB1134
CN6	3P RCA PINJACK	AKB1143
X502	CRYSTAL RESONATOR (14.31818MHz)	ASS1056
X501	CERAMIC RESONATOR (503kHz)	ASS1112
CN3	PLUG 3-P	KM250MA3L
CN154	16P SOCKET	KP2001B16L
CN199	9P SOCKET	KP2001B9L

VIDEO FUNCTION ASSY (AWZ5430)

SEMICONDUCTORS

IC502	LA7951
IC1502	M66320FP
IC501	NJM2233BLA
IC1503	UPC78L05J
Q505, Q506	2SA1115
Q508	2SC2412K

COILS

L501, L502, L509, L510	LAU680J
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CAPACITORS

C558, C559	CCSQCH050C50
C1526	CCSQCH102J50
C1506	CEAS101M10
C507	CEAS101M16
C501-C506, C509, C511	CEAS470M25
C552, C553	CEAS470M25
C563	CEAS471M10
C560, C561	CEAS471M6
C1505	CKSQYB102K50
C1507, C1521, C508, C510	CKSQYF103Z50
C554, C555	CKSQYF103Z50

RESISTORS

R541, R542	RD1/2PM331J
R1504	RD1/4PM680J
Other Resistors	RS1/10S□□□J

Mark	No.	Description	Part No.
OTHERS			
		PHONO JACK 2-P	AKB1134
	CN6, CN8111	3P RCA PINJACK	AKB1143
	CN154	12P SOCKET	KP2001B12L
	CN199	9P SOCKET	KP2001B9L

**CONNECTION ASSY
(AWZ5425 and AWZ5428)**

SEMICONDUCTORS

D552	HSS104-02
D551	RD5. 1ESB2

CAPACITORS

C2551	CCSQCH102J50
C1551	CEAS101M16
C1552	CEAS470M25

RESISTORS

R552	RD1/2PM181J
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OTHERS

CN114	SOCKET (27P)	AKP1099
CN51	12P PLUG	KM2001B12
CN52	13P PLUG	KM2001B13
CN54	16P PLUG (AWZ5425)	KM2001B16
CN54	12P PLUG (AWZ5428)	KM2001B12
CN99	9P PLUG	KM2001B9
CN53	10P PLUG	KM2001B10

TONE ASSY (AWZ5426)

SEMICONDUCTORS

IC573	M5220P
IC571	TC9162N
IC572, IC574	XRA4558N-P
Q577	2SA1115
Q571-Q574	2SC2458
D571-D574, D577-D580	HSS104-02
D575, D576	RD5. 1ESB2

CAPACITORS

C591, C592	CCSQCH151J50
C573, C574	CEAS010M50
C585, C586, C589, C590	CEAS100M50
C599, C600	CEAS100M50
C571, C572, C587, C588	CEAS47M50
C593, C594	CEAS47M50
C577, C578, C595, C596	CEASR47M50
C575, C576	CFTXA154J50
C579, C580	CFTXA473J50
C605	CKDYF103Z50
C583, C584	CKPUYB151K50
C597, C598	CKSQYB103K50
C601	CKSQYB471K50
C581, C582	CQMA153J50

VSX - D903S, VSX - D933S, VSX - 53, VSX - D703S,
VSX - D603S, VSX - D613S, VSX - D633S

Mark	No.	Description	Part No.
RESISTORS			
	R627, R628		RD1/4PM221J
	R1597		RS1/10S000J
	R622-R624		RS1/10S102J
	R575, R576, R629, R630		RS1/10S104J
	R605, R606		RS1/10S223J
	R601, R602		RS1/10S473J
	R603, R604		RS1/10S562J
	VR573 (10kΩ × 2)		ACS1029
	VR571, VR572 (30kΩ × 2)		ACS1115
	Other Resistors		RD1/8PM□□□J

OTHERS			
	CABLE HOLDER(10P)		AKT1083
CN55, CN56	15P PLUG		KM2001B15
CN13	CONNECTOR(15P)		KPE15

SR ASSY (AWZ5433)

SEMICONDUCTORS			
	Q656, Q657		2SA1048
	Q655		2SC2458
	D651-D653, D655-D657		HSS104-02
	D654		RD5. 1ESB

RESISTORS			
	All Resistors		RS1/10S□□□J

OTHERS			
CN651	2P MINI JACK		AKN1006
	MINI JACK		AKN1020
CN12	CONNECTOR(9P)		KPE9

F. MUTE ASSY (AWZ5708)

SEMICONDUCTORS			
	Q5571, Q5572		2SC2878

CAPACITORS			
	C101, C102		CEAS4R7M50

RESISTORS			
	All Resistors		RD1/8PM□□□J

OTHERS			
	CABLE HOLDER(4P)		AKT1077
CN117	7P SOCKET		KP2001B7L

F. VIDEO ASSY (AWZ5435)

CAPACITOR			
	C710		CKCYX104M16

RESISTORS			
	All Resistors		RD1/8PM□□□J

OTHERS			
	PIN JACK(1P)		AKB1082
CN1	PLUG 5-P		KM250MA5

Mark	No.	Description	Part No.
FL U-COM ASSY (AWZ5605 and AWZ5436)			
SEMICONDUCTORS			
	IC701		PDG117B
	Q702, Q703, Q705-Q707		2SC2458
	Q701		XDC124ES
	D735, D736		AEL1100
	D734		AEL1151
	D701-D710, D715, D716		HSS104-02
	D721, D722, D727, D728, D733		HSS104-02
	D740-D743, D761, D763		HSS104-02

COIL			
	L701		LAU220K

SWITCHES			
	S701-S714, S716, S717, S719, S720		ASG1034
	S722, S723, S725, S726, S728-S732		ASG1034
	S715, S718 (AWZ5605 ONLY)		ASG1034
	S724, S727 (AWZ5436 ONLY)		ASG1034
	S733		ASX1015

CAPACITORS			
	C707 (47μ, 5.5V)		ACH1246
	C704, C706		CEAS010M50
	C702		CEAS101M10
	C708		CEAS470M50
	C701		CEJA010M50
	C705, C709		CKCYX473M25
	C703		CKPUYF473Z16

RESISTORS			
	R743		RD1/4PM221J
	Other Resistors		RD1/8PM□□□J

OTHERS			
	V701 FL TUBE		AAV1196
	CN14 SOCKET(27P)		AKP1100
	CN20 18P SOCKET		AKP1106
	X701 CERAMIC RESONATOR (8.00MHz)		ASS1015
	REMOTE RECEIVER UNIT		AXX1023

**VSX - D903S, VSX - D933S, VSX - 53, VSX - D703S,
VSX - D603S, VSX - D613S, VSX - D633S**

Mark	No.	Description	Part No.
PROLOGIC • SFC MODULE (AXQ1024)			
SEMICONDUCTORS			
	IC2001		LA2785
	IC2007		LC32464M-80
	IC2008, IC2018		LC78835M
	IC2003-IC2006, IC2010, IC2011, IC2013		NJM4558M-D
	IC2017		NJM4558M-D
	IC2019		NJM78M05FAS
	IC2002		NJM78M09FAS
	IC2012		PDC017C
	IC2015		PDC018A
	IC2014		TC9162N
	Q2001		2SA1162
	Q2002		DTC124EK
	D2001, D2002, D2004		1SS226
COILS			
	L2004, L2006, L2010, L2014		ATX1008
	L2013, L2015		LCTAR22J3225
	L2003, L2005		LTA102J
	L2011, L2012		LTA473J
CAPACITORS			
	C2168		CCSQCH040C50
	C2084, C2085		CCSQCH080D50
	C2036, C2108, C2113		CCSQCH101J50
	C2041, C2042		CCSQCH102J50
	C2164, C2167		CCSQCH150J50
	C2163		CCSQCH470J50
	C2043, C2044, C2080, C2081		CCSQCH471J50
	C2082, C2083		CCSQCH680J50
	C2018, C2021		CEANL3R3M50
	C2014, C2016, C2023, C2025		CEANL4R7M50
	C2122, C2126		CEANP101M16
	C2072, C2073		CEAS010M50
	C2047, C2048, C2053, C2058, C2064		CEAS100M50
	C2102, C2104, C2106, C2130, C2135		CEAS100M50
	C2060, C2066, C2153		CEAS101M10
	C2105		CEAS220M16
	C2068, C2069		CEAS220M25
	C2037, C2166		CEAS221M10
	C2003, C2008, C2123, C2127		CEAS221M16
	C2051, C2052, C2054, C2067, C2103		CEAS2R2M50
	C2076, C2077		CEAS330M16
	C2039		CEAS331M16
	C2029, C2056, C2092		CEAS470M10
	C2112		CEAS470M25
	C2138		CEAS471M10
	C2004-C2007, C2009, C2010		CEJA100M16
	C2032-C2034		CEJA100M16
	C2013, C2015, C2024, C2026		CEJAR47M50
	C2011, C2012, C2027, C2028		CFTXA104J50
	C2019, C2020		CFTXA154J50
	C2030		CFTXA474J50
	C2017, C2022		CFTYA154J50
	C2070, C2071, C2097		CKSQYB102K50
	C2078, C2079, C2086, C2087		CKSQYB103K50
	C2090, C2091, C2111		CKSQYB103K50

Mark	No.	Description	Part No.
	C2158, C2159, C2161, C2162		CKSQYB104K25
	C2140-C2142		CKSQYB182K50
	C2045, C2046, C2100		CKSQYB222K50
	C2101		CKSQYB471K50
	C2074, C2075, C2095, C2110, C2155		CKSQYB472K50
	C2055, C2057, C2089, C2093, C2165		CKSQYB473K25
	C2038, C2040, C2154		CKSQYB473K50
	C2031, C2059, C2061, C2062, C2065		CKSQYF104Z50
	C2096, C2107, C2109, C2129, C2134		CKSQYF104Z50
	C2136		CKSQYF104Z50
	C2001		CQMA223J50
	C2002		CQMA473J50
	C2035		CQMA681J50
RESISTORS			
	R2148		RD1/2PMFL4R7J
	Other Resistors		RS1/10S□□□J
OTHERS			
	X2002 CERAMIC RESONATOR (4.19MHz)		ASS1018
	X2001 CRYSTAL RESONATOR (22.5792MHz)		ASS1114
	CN2001 15P SOCKET		KP2001B15L
REG ASSY (AWZ5403 and AWZ5621)			
SEMICONDUCTORS			
	IC251		NJM78M12FAS
	IC252		NJM79M12FA
	Q256, Q257, Q261		2SA1048
	Q258		2SC2458
	Q251		2SC4793
	Q252 (AWZ5403 ONLY)		2SC4793
	Q253, Q260		2SD438
	Q254, Q255, Q259		XDA124ES
	D257		HZS22-3L
	D260		HZS6B2L
	D259 (AWZ5403 ONLY)		HZS6C2L
	D258, D261		RD13ESB3
	D251-D254		S5566
	D255, D256 (AWZ5403 ONLY)		S5566
CAPACITORS			
	C251 (0.01 μ , AC250V)		ACG1005
	C259, C260, C262		CEAS101M25
	C265 (AWZ5403 ONLY)		CEAS101M25
	C261		CEAS102M16
	C253		CEAS102M35
	C254 (AWZ5403 ONLY)		CEAS102M35
	C252		CEAS222M35
	C255, C266		CEAS470M25
	C264 (AWZ5403 ONLY)		CEAS471M10
	C256-C258		CKCYF103Z50
	C263 (AWZ5403 ONLY)		CKCYF103Z50
RESISTORS			
	R259 (AWZ5403 ONLY)		RD1/4PMF272J
	R256		RD1/4PMF751J
	R251		RFA1/4PS470J
	R286		RS1PMF100J
	R261		RS1PMF121J

**VSX - D903S, VSX - D933S, VSX - 53, VSX - D703S,
VSX - D603S, VSX - D613S, VSX - D633S**

Mark	No.	Description	Part No.
	R253		RS1PMF220J
	R276		RS2LMF151J
	R284(AWZ5621 ONLY)		RT5PD100K
	R252		RT5PD180K
	R257(AWZ5403 ONLY)		RT5PD470K
	Other Resistors		RD1/8PM□□□J

OTHERS

	SCREW(AWZ5403 ONLY)	ABA-298
CN15, CN19	CONNECTOR(10P)	KPC10
CN8018	CONNECTOR(4P)	KPC4
CN201	CONNECTOR(3P)	KPE3
CN36	CONNECTOR(3P) (AWZ5403 ONLY)	KPE3

POWER SUPPLY ASSY (AWZ5404)

SEMICONDUCTORS

Q366	2SA1515
Q362, Q364, Q365, Q368	2SC2458
Q367	XDA143ES
Q363	XDC124ES
Q361	XDC143ES
D362	D3SBA20
D351, D352	D5SB20F
D361, D366, D369	HSS104-02
D367	HZS5BLL
D365	RD6. 2ESB
D363, D364	S5566

RELAYS

RY361, RY362	ASR1027
RY363	ASR1035

CAPACITORS

C351, C352, C361 (0.01 μ , AC250V)	ACG1005
C362, C363 (5600 μ , 50V)	ACH1145
C353 (12000 μ , 80V)	ACH1263
C354 (12000 μ , 80V)	ACH1264
C367	CEAS101M35
C364	CEAS220M50
C365	CEAS221M16
C366	CEAS330M25
C368	CKCYF103Z50

RESISTORS

R362	RD1/2PMF102J
R366	RD1/4PMF2R2J
R368	RD1/4PMF822J
R361	RS1PMF471J
R372	RS1PMF821J
R373, R374	RS2LMF331J
Other Resistors	RD1/8PM□□□J

OTHERS

JACK	AKN1002
CN20 18P SOCKET	AKP1102
CABLE HOLDER(3P)	AKT1076
CABLE HOLDER(4P)	AKT1077
CABLE HOLDER(9P)	AKT1082
CABLE HOLDER(10P)	AKT1083
JUMPER CONNECTOR	KPC8

Mark	No.	Description	Part No.
		FRONT SP ASSY (AWZ5407)	

SEMICONDUCTORS

Q281, Q282	XDC143ES
D281, D282	HSS104-02

SWITCH AND RELAYS

S281	AKX1033
RY281, RY282	ASR-112

RESISTORS

R281, R282	RS1PMF821J
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OTHERS

SPEAKER TERMINAL 8-P	AKE1011
CN26 CONNECTOR(7P)	KPC7
CN25 JUMPER CONNECTOR	KPC8
CN27 CONNECTOR(4P)	KPE4
CN24 CONNECTOR(6P)	KPE6

R. C. SP ASSY (AWZ5408)

SEMICONDUCTORS

Q271, Q272	XDC143ES
D271, D272	HSS104-02

RELAYS

RY271, RY272	ASR-112
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RESISTORS

R273, R274	RS1PMF821J
Other Resistors	RD1/8PM□□□J

OTHERS

CN8007 PIN JACK 1-P	AKB1139
SPEAKER TERMINAL 8-P	AKE-111
SPEAKER TERMINAL 4-P	AKE1055
CABLE HOLDER(7P)	AKT1080

SW ASSY (AWZ5412)

SWITCH

S111	ASH1043
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OTHERS

CN29 CONNECTOR(3P)	KPE3
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**VSX - D903S, VSX - D933S, VSX - 53, VSX - D703S,
VSX - D603S, VSX - D613S, VSX - D633S**

Mark No. Description Part No.

**AUDIO FUNCTION ASSY
(AWZ5416 and AWZ5728)**

SEMICONDUCTORS

IC404	M5220P
IC402	TC9163N
IC401	TC9164N
IC403	XRA4558-P

CAPACITORS

C447, C448	CCSQCH102J50
C419, C420	CCSQCH221J50
C417, C418	CCSQCH681J50
C423, C424	CCSQL101J50
C415, C416	CEAS100M50

C431, C432	CEAS101M16
C433, C434, C439, C440	CEAS2R2M50
C421, C422	CEAS470M25
C445, C446	CEAS4R7M50
C435-C438	CKSQYB103K50

C1400, C429, C430, C441, C444	CKSQYF103Z50
C427, C428	CQMA242J50
C425, C426	CQMA822J50

RESISTORS

All Resistors	RS1/10S□□□J
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OTHERS

	PIN JACK(6P)	AKB1121
CN8207	PIN JACK(6P) (AWZ5416 ONLY)	AKB1129
	PIN JACK(4P) (AWZ5728 ONLY)	AKB1101
	PIN JACK(2P) (AWZ5728 ONLY)	AKB1151
	CABLE HOLDER(11P)	AKT1084
CN152	13P SOCKET	KP2001B13L

A/V FUNCTION ASSY (AWZ5417)

SEMICONDUCTORS

IC452	TC9162N
IC451	TC9163N
IC453	XRA4558N-P

CAPACITORS

C487, C488	CCSQCH102J50
C479, C480	CEAS2R2M50
C481, C482	CEAS470M25
C485, C486	CEAS4R7M50
C475-C478	CKSQYB103K50

C1450, C483, C484	CKSQYF103Z50
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RESISTORS

All Resistors	RS1/10S□□□J
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OTHERS

	PIN JACK(4P)	AKB1101
	PIN JACK(4P)	AKB1124
CN2	PLUG 3-P	KM250MA3L
CN153	10P SOCKET	KP2001B10L
CN11	L-CONNECTOR(11P)	KPD11L

Mark No. Description Part No.

VIDEO FUNCTION ASSY (AWZ5418)

SEMICONDUCTORS

IC502	LA7951
IC504	LA7952
IC1502	M66320FP
IC501, IC503	NJM2233BLA
IC505, IC509	NJM2234L

IC1503	UPC78L05J
Q505-Q507	2SA1115
Q508	2SC2412K
Q509	2SC2458
D501-D504	HSS104-02

COILS

L1501, L1503, L501-L504	LAU680J
L509-L511	LAU680J

CAPACITORS

C558, C559, C562	CCSQCH050C50
C1526	CCSQCH102J50
C1527	CCSQCH220J50
C1529	CCSQCH820J50
C1515	CEANP470M10

C1506	CEAS101M10
C507	CEAS101M16
C521	CEAS2R2M50
C1501, C1503, C1504, C1516-C1518	CEAS470M25
C1523, C1525, C501-C506, C509	CEAS470M25

C511, C513-C517, C519	CEAS470M25
C552, C553, C557	CEAS470M25
C561, C563	CEAS471M10
C560	CEAS471M8
C1522	CEAS4R7M50

C1505	CKSQYB102K50
C1502, C1507, C1519, C1521, C508	CKSQYF103Z50
C510, C518, C520, C554-C556	CKSQYF103Z50

RESISTORS

R542, R548	RD1/2PM221J
R541	RD1/2PM331J
R1504	RD1/4PM680J
Other Resistors	RS1/10S□□□J

OTHERS

CN8111	PIN JACK(2P)	AKB1118
	PHONO JACK 2-P	AKB1134
CN6	3P RCA PINJACK	AKB1143
CN3	PLUG 3-P	KM250MA3L
CN154	19P SOCKET	KP2001B19L
CN199	9P SOCKET	KP2001B9L

**VSX - D903S, VSX - D933S, VSX - 53, VSX - D703S,
VSX - D603S, VSX - D613S, VSX - D633S**

Mark No. Description Part No.
VIDEO FUNCTION ASSY (AWZ5431)

SEMICONDUCTORS

IC502	LA7951
IC504	LA7952
IC507	M50554-003SP
IC1502	M66320FP
IC506	MM1067XD
IC501, IC503, IC508	NJM2233BLA
IC505, IC509	NJM2234L
IC1503	UPC78L05J
Q505-Q507	2SA1115
Q508	2SC2412K
Q503, Q504	2SC2458
Q501, Q502, Q510	XDC124ES
D508	1SS108
D505-D507	1SS352
D501-D504	HSS104-02

COILS

L506	LAU150J
L507, L508	LAU270J
L1501-L1503, L501-L504	LAU680J
L509-L511	LAU680J

CAPACITORS

TC501	ACM-020
C558, C559, C562	CCSQCH050C50
C540, C546	CCSQCH101J50
C1526	CCSQCH102J50
C542, C544	CCSQCH150J50
C1528	CCSQCH151J50
C1527, C549, C551	CCSQCH220J50
C535	CCSQCH221J50
C543	CCSQCH330J50
C1529	CCSQCH331J50
C534	CCSQCH471J50
C532	CCSQCH561J50
C1503, C1515	CEANP470M10
C536	CEASR47M50
C526, C530, C531	CEAS010M50
C527, C547	CEAS100M50
C1506	CEAS101M10
C507	CEAS101M16
C521	CEAS2R2M50
C1501, C1504, C1511, C1513, C1514	CEAS470M25
C1516-C1518, C1523, C1525	CEAS470M25
C501-C506, C509, C511, C513-C517	CEAS470M25
C519, C538, C552, C553, C557	CEAS470M25
C561, C563	CEAS471M10
C560	CEAS471M6
C1524	CEJA100M16
C537	CEJA2R2M50
C1505, C545	CKSQYB102K50
C533	CKSQYB332K50
C1502, C1507, C1512, C1519, C1521	CKSQYF103Z50
C508, C510, C518, C520, C528, C539	CKSQYF103Z50
C548, C550, C554-C556	CKSQYF103Z50
C541	CKSQYF104Z50
C529	CKSQYF473Z50

Mark No. Description Part No.
RESISTORS

R542, R548	RD1/2PM221J
R541	RD1/2PM331J
R1504	RD1/4PM680J
R1531	RD1/8PM133J
Other Resistors	RS1/10S□□□J

OTHERS

CN8111	PIN JACK (2P)	AKB1118
	PHONO JACK 2-P	AKB1134
CN6	3P RCA PINJACK	AKB1143
X502	CRYSTAL RESONATOR (14.31818MHz)	ASS1056
X501	CERAMIC RESONATOR (503kHz)	ASS1112
CN3	PLUG 3-P	KM250MA3L
CN154	16P SOCKET	KP2001B16L
CN199	9P SOCKET	KP2001B9L

**CONNECTION ASSY
(AWZ5419 and AWZ5432)**

SEMICONDUCTORS

IC551	TC9176P
IC1552, IC555	XRA4558-P
D552-D554	HSS104-02
D551	RD5.1ESB2

CAPACITORS

C2554, C2555	CCSQCH101J50
C1553, C2551	CCSQCH102J50
C1564-C1567	CEAS100M50
C1551	CEAS102M16
C1552, C1556, C1557	CEAS470M25
C1554, C1555, C1562, C1563	CEAS4R7M50
C1558, C1559	CKSQYF103Z50
C2552, C2553	CKSQYF473Z50

RESISTORS

R552	RD1/2PM181J
R564, R565	RD1/2PM221J
R1561	RFA1/4PS100J
Other Resistors	RS1/10S□□□J

OTHERS

CN114	SOCKET (27P)	AKP1099
CN53	10P PLUG	KM2001B10
CN51	12P PLUG	KM2001B12
CN52	13P PLUG	KM2001B13
CN54	19P PLUG (AWZ5419)	KM2001B19
CN54	16P PLUG (AWZ5432)	KM2001B16
CN99	9P PLUG	KM2001B9

**VSX - D903S, VSX - D933S, VSX - 53, VSX - D703S,
VSX - D603S, VSX - D613S, VSX - D633S**

Mark No. Description Part No.
TONE ASSY (AWZ5420 and AWZ5426)

SEMICONDUCTORS

IC573	M5220P
IC571	TC9162N
IC572, IC574	XRA4558N-P
Q577	2SA1115
Q571-Q574	2SC2458
D571-D574, D577-D580	HSS104-02
D575, D576	RD5. 1ESB2

CAPACITORS

C591, C592	CCSQCHI151J50
C573, C574	CEAS010M50
C585, C586, C589, C590	CEAS100M50
C599, C600	CEAS100M50
C571, C572, C587, C588	CEAS4R7M50
C593, C594	CEAS4R7M50
C577, C578, C595, C596	CEASR47M50
C575, C576	CFTXA154J50
C579, C580	CFTXA473J50
C605	CKDYF103Z50

C583, C584	CKPUYB151K50
C597, C598	CKSQYB103K50
C601	CKSQYB471K50
C581, C582	CQMA153J50

RESISTORS

R627, R628	RD1/4PM221J
R631(AWZ5420 ONLY)	RD1/4PM2R7J
R1597	RS1/10S000J
R622-R624	RS1/10S102J
R575, R576, R629, R630	RS1/10S104J
R605, R606	RS1/10S223J
R601, R602	RS1/10S473J
R603, R604(AWZ5420)	RS1/10S562J
VR573 (10k Ω $\times$ 2)	ACS1029
VR571, VR572 (30k Ω $\times$ 2)	ACS1115
Other Resistors	RD1/8PM□□□J

OTHERS

CN55, CN56	CABLE HOLDER(10P)	AKT1083
CN13	15P PLUG	KM200IB15
	CONNECTOR(15P)	KPE15

Mark No. Description Part No.
FL U-COM ASSY (AWZ5434 and AWZ5438)

SEMICONDUCTORS

IC701(AWZ5434)	PDG118A
IC701(AWZ5438)	PDG117B
Q702, Q703, Q705-Q708, Q710	2SC2458
Q711(AWZ5434 ONLY)	XDA124ES
Q701, Q712, Q713	XDC124ES
Q704(AWZ5434 ONLY)	XDC143ES
D711-D714, D717-D720(AWZ5434 ONLY)	AEL1100
D735-D737, D739	AEL1100
D745-D752(AWZ5434 ONLY)	AEL1100
D754-D756(AWZ5434 ONLY)	AEL1100

D734	AEL1151
D723-D726, D753(AWZ5434 ONLY)	AEL1164
D701-D710, D715, D716	HSS104-02
D721, D722, D727, D728, D733	HSS104-02
D740-D743, D761-D763	HSS104-02
D764(AWZ5434 ONLY)	HSS104-02

COIL

L701	LAU220K
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SWITCHES

S701-S732	ASG1034
S733	ASX1015

CAPACITORS

C707 (47mF, 5.5V)	ACH1246
C704, C706	CEAS010M50
C702	CEAS101M10
C708	CEAS470M50
C701	CEJA010M50
C705, C709	CKCYX473M25
C703	CKPUYF473Z16

RESISTORS

R743	RD1/4PM221J
R725, R728, R731(AWZ5434 ONLY)	RD1/4PM271J
Other Resistors	RD1/8PM□□□J

OTHERS

V701	FL TUBE	AAV1196
CN14	SOCKET(27P)	AKP1100
CN20	18P SOCKET	AKP1106
X701	CRYSTAL RESONATOR (8.00MHz)	ASS1015
	REMOTE RECEIVER UNIT	AXX1023

**VSX - D903S, VSX - D933S, VSX - 53, VSX - D703S,
VSX - D603S, VSX - D613S, VSX - D633S**

Mark No. Description Part No.
SR & S. TERMINAL ASSY
(AWQ1024 and AWQ1026)

SEMICONDUCTORS

IC651, IC652	LA7951
IC653	NJM2234L
IC654, IC655 (AWQ1024 ONLY)	NJM2234L
Q656, Q657, Q660	2SA1048
Q652, Q653, Q658	2SA1115
Q651, Q654 (AWQ1024 ONLY)	2SA1115
Q655, Q659	2SC2458
Q1652	DTC143EK
Q661, Q1651 (AWQ1024 ONLY)	XDC124ES
D651-D653, D655-D657	HSS104-02
D1651 (AWQ1024 ONLY)	HSS104-02
D654	RD5.1ESB

COILS

L651, L652, L655, L658 (AWQ1024 ONLY)	LAU680K
L653, L654, L656, L657, L659, L660	LAU680K

CAPACITORS

C681, C682, C693	CCSQCH050C50
C680, C683 (AWQ1024 ONLY)	CCSQCH050C50
C1658	CCSQCH101J50
C688	CEANP470M10
C684, C686	CEAS010M50
C655, C656, C665, C671	CEAS100M50
C1657	CEAS101M10
C668, C669, C689	CEAS101M16
C1651, C663, C677, C678	CEAS470M25
C1654, C1655, C652, C654, C658 (AWQ1024 ONLY)	CEAS470M25
C661, C676, C679 (AWQ1024 ONLY)	CEAS470M25
C692	CEAS470M25
C1653 (AWQ1026 ONLY)	CEAS470M25
C687, C694	CEAS471M10
C685	CEAS471M6
C1652	CEJA470M16
C1656	CKSQYB822K50
C666, C667, C673, C674	CKSQYF103Z50
C657, C662, C672, C675 (AWQ1024 ONLY)	CKSQYF103Z50
C672-C675, C690, C691	CKSQYF103Z50
C659, C660, C664	CKSQYF104Z25
C651, C653 (AWQ1024 ONLY)	CKSQYF104Z25
C670	CKSQYF104Z25

RESISTORS

R674 (AWQ1024 ONLY)	RD1/2PM221J
R698	RD1/2PM221J
R671 (AWQ1024 ONLY)	RD1/2PM331J
R672, R673	RD1/2PM331J
Other Resistors	RS1/10S□□□J

OTHERS

CN655	PIN JACK (1P)	AKB1168
CN651	JACK	AKN1006
	JACK	AKN1020
CN653, CN654	SOCKET	AKP1064
CN12	CONNECTOR (14P)	KPE14
CN34	CONNECTOR (6P)	KPE6

Mark No. Description Part No.
GUI ASSY (AWQ1025)

SEMICONDUCTORS

IC801	CXA1645M
IC803	HM514256AP10
IC804	LH52B256N9LL
IC809	MC74AC541M
IC805	PDR008A
IC808	SC78213GC
IC807, IC812	TC74AC00F
IC806, IC811	TC74HC573AF
IC810	TC74HC74AF
IC802	YGV606-F
Q801-Q803	2SC2712
Q804	2SC3732
D801-D808	1SS352

COILS

L801, L806, L809, L810	ATX1008
L818-L821	ATX1008
L822-L830	ATX1026
L811, L812, L814-L817	LCTA100J3225
L802-L805, L807, L808	LCTA1R0J3225

CAPACITORS

C853 (47mF, 5.5V)	ACH1246
C809	CCSQCH020C50
C822, C823	CCSQCH120J50
C840, C843	CCSQCH150J50
C811	CCSQCH470J50
C806	CCSQCH560J50
C841	CEAS471M6
C807	CEJA100M16
C819, C826, C828, C833, C835	CEJA101M10
C847	CEJA101M10
C804, C812	CEJA470M16
C817	CEJA47M35
C810, C814-C816	CFTXA104J50
C854	CKSQYB102K50
C805, C813	CKSQYF103Z50
C808, C818, C820, C821	CKSQYF104Z50
C824, C825, C827, C831, C832	CKSQYF104Z50
C801-C803, C829, C830, C834	CKSQYF473Z50
C836-C839, C842, C844-C846	CKSQYF473Z50
C848-C852, C858	CKSQYF473Z50

RESISTORS

All Resistors	RS1/10S□□□J
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OTHERS

X801	CRYSTAL RESONATOR	ASS1056
X802	CRYSTAL RESONATOR	ASS1104
CN35	CONNECTOR (5P)	KPE5
CN32	CONNECTOR (6P)	KPE6
CN31	CONNECTOR (9P)	KPE9

**VSX - D903S, VSX - D933S, VSX - 53, VSX - D703S,
VSX - D603S, VSX - D613S, VSX - D633S**

Mark No. Description Part No.
PROLOGIC • SFC MODULE (AXQ1029)

SEMICONDUCTORS

IC2001	LA2785
IC2007	LC32464M-80
IC2008, IC2018	LC78835M
IC2003-IC2006, IC2010, IC2011, IC2013	NJM4558M-D
IC2017	NJM4558M-D
IC2019	NJM78M05FAS
IC2002	NJM78M09FAS
IC2012	PDC017C
IC2015	PDC018A
IC2014	TC9162N
Q2001	2SA1162
Q2002	DTC124EK
D2001, D2002, D2004	ISS226

COILS

L2004, L2006, L2010, L2014	ATX1008
L2013, L2015	LCTAR22J3225
L2003, L2005	LTA102J
L2011, L2012	LTA473J

CAPACITORS

C2168	CCSQCH040C50
C2084, C2085	CCSQCH080D50
C2036, C2108, C2113	CCSQCH101J50
C2164, C2167	CCSQCH150J50
C2163	CCSQCH470J50
C2080, C2081	CCSQCH471J50
C2082, C2083	CCSQCH680J50
C2018, C2021	CEANL3R3M50
C2014, C2016, C2023, C2025	CEANL4R7M50
C2122, C2126	CEANP101M16
C2072, C2073	CEAS010M50
C2047, C2048, C2053, C2058, C2064	CEAS100M50
C2102, C2104, C2106, C2130, C2135	CEAS100M50
C2060, C2066, C2153	CEAS101M10
C2105	CEAS220M16
C2068, C2069	CEAS220M25
C2037, C2166	CEAS221M10
C2003, C2008, C2123, C2127	CEAS221M16
C2051, C2052, C2054, C2067, C2103	CEAS2R2M50
C2076, C2077	CEAS330M16
C2039	CEAS331M16
C2029, C2056, C2092	CEAS470M10
C2112	CEAS470M25
C2138	CEAS471M10
C2004-C2007, C2009, C2010	CEJA100M16
C2032-C2034	CEJA100M16
C2013, C2015, C2024, C2026	CEJAR47M50
C2011, C2012, C2027, C2028	CFTXA104J50
C2019, C2020	CFTXA154J50
C2030	CFTXA474J50
C2017, C2022	CFTYA154J50
C2070, C2071, C2097	CKSQYB102K50
C2078, C2079, C2086, C2087	CKSQYB103K50
C2090, C2091, C2111	CKSQYB103K50
C2158, C2159, C2161, C2162	CKSQYB104K25

Mark No. Description Part No.

C2140-C2142	CKSQYB182K50
C2100	CKSQYB222K50
C2101	CKSQYB471K50
C2074, C2075, C2095, C2110, C2155	CKSQYB472K50
C2041, C2042, C2055, C2057, C2089	CKSQYB473K25
C2093, C2165, C2169-C2172	CKSQYB473K25
C2038, C2040, C2154	CKSQYB473K50
C2031, C2059, C2061, C2062, C2065	CKSQYF104Z50
C2096, C2107, C2109, C2129, C2134	CKSQYF104Z50
C2136	CKSQYF104Z50
C2001	CQMA223J50
C2002	CQMA473J50
C2035	CQMA681J50

RESISTORS

R2148	RD1/2PMFL4R7J
Other Resistors	RS1/10S□□□J

OTHERS

X2002	CERAMIC RESONATOR (4.19MHz)	ASS1018
X2001	CRYSTAL RESONATOR (22.5792MHz)	ASS1114
CN2001	15P SOCKET	KP2001B15L

7. ADJUSTMENTS

7.1 TUNER SECTION

1. Wiring Connect the wires as shown in Fig. 7 - 1 (FM ANT. terminal : 75 Ω).
2. Preset Set the VR451 to center position.
3. When the SD model is used, set the band select switch to AM : 10kHz/FM : 100kHz.

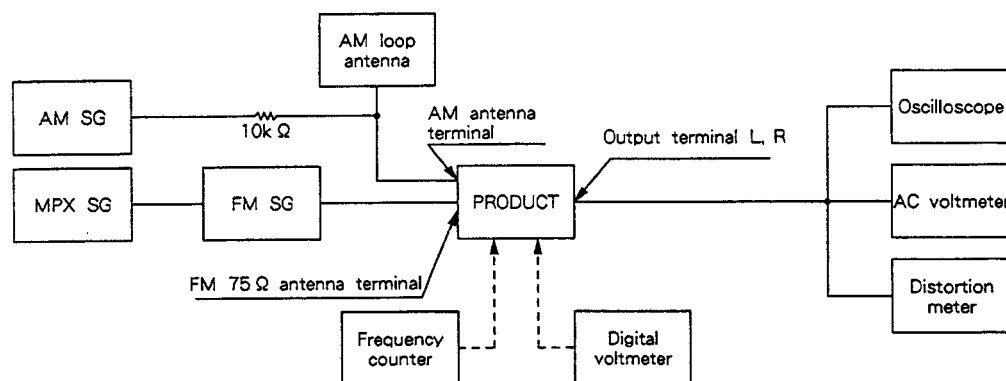


Fig. 7 - 1 AM and FM adjustment wiring diagram

Note : Stereo modulation Main 1kHz L+R $\pm 68.25\text{kHz}$
Pilot 19kHz $\pm 6.75\text{kHz}$

FM Section

Order	Item	SSG			Receiving Frequency	Adjustment	
		Frequency	Modulation	Level		Adjustment Location	Remarks
1	Increasing front end sensitivity	98MHz	—	Weak input	98MHz	L402, L404, T402	Set the the voltage between terminal 43 and GND to maximum, and check that the practical sensitivity is as specified.
2	Center adjustment	98MHz	—	60dB μ V	98MHz	L431	Adjust the voltage between terminals 45 and 46 to 0 $\pm 50\text{mV}$.
3	Adjusting VCO	—	OFF	60dB μ V	—	VR451	Adjust the output of terminal 44 to 76.0kHz $\pm 1.0\text{kHz}$.
4	Adjusting stereo distortion	98MHz	L-ONLY R-ONLY	60dB μ V	98MHz	T402	Minimize the distortion within 1/4 rotation of the core, and check conformity to the specification.
5	Adjusting lighting levels of TUNED and STEREO IND.	98MHz	STEREO	10dB μ V (+1dB -2dB)	98MHz	VR432	Adjust TUNED and STEREO IND. to start lighting.

AM Section

Order	Item	SSG			Receiving Frequency	Adjustment	
		Frequency	Modulation	Level		Adjustment Location	Remarks
1	Adjusting lighting level of TUNED IND.	1000kHz	—	—	1000kHz	VR431	Adjust the lighting level of TUNED IND. to 55dB μ V/m $\pm 3\text{dB}$.

**VSX - D903S, VSX - D933S, VSX - 53, VSX - D703S,
VSX - D603S, VSX - D613S, VSX - D633S**

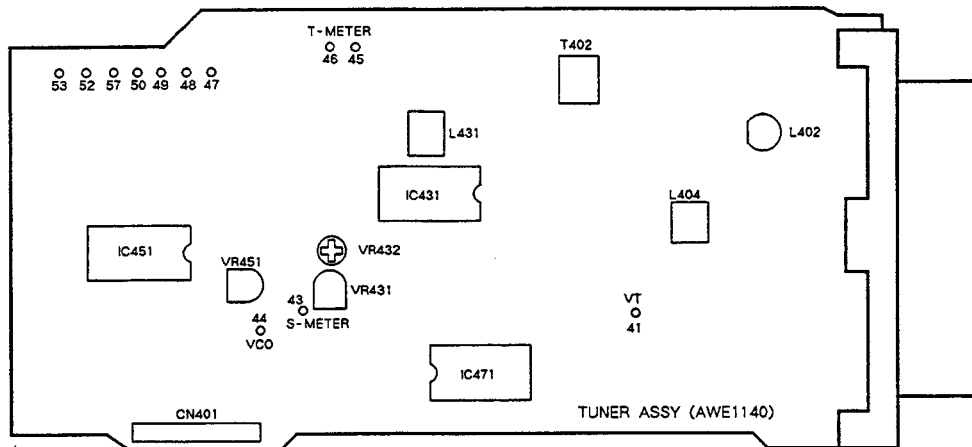


Fig. 7 - 2 Adjustment location of TUNER SECTION

7.2 VIDEO FUNCTION ASSY SECTION

- Connect the VIDEO OUT (TO MONITOR TV) terminal to a monitor TV.
1. Push the DOLBY PRO LOGIC button.
 2. Adjust the TC501 to center the superimposed display (Fig. 7 - 3), leaving equal margin on both right and left of the TV screen.

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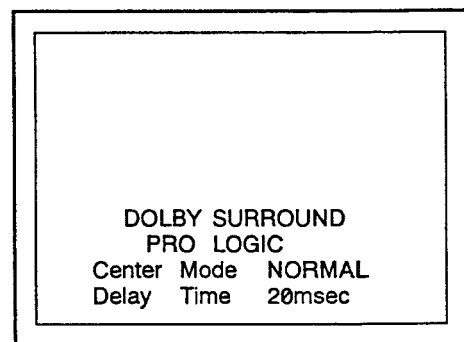


Fig. 7 - 3

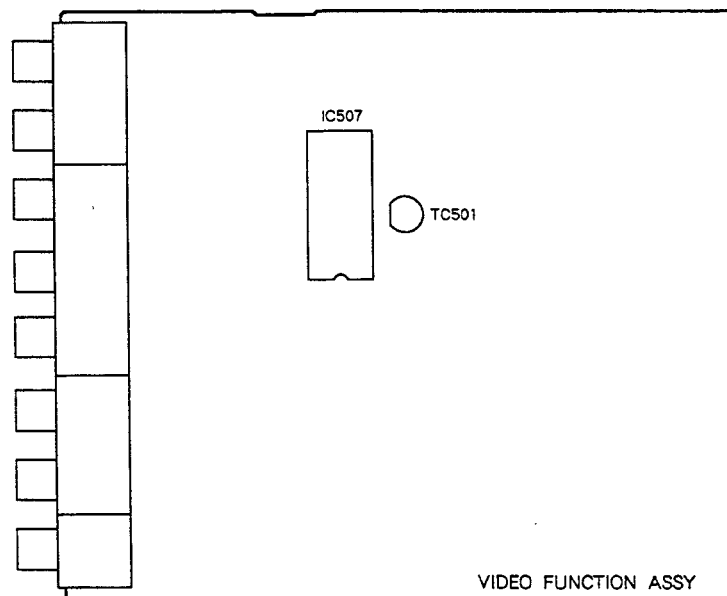


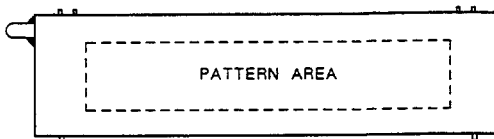
Fig. 7 - 4 Adjustment location of VIDEO FUNCTION SECTION

**VSX - D903S, VSX - D933S, VSX - 53, VSX - D703S,
VSX - D603S, VSX - D613S, VSX - D633S**

8. FL INFORMATION

■ **AAV1196 (V701)**

PIN LOCATION

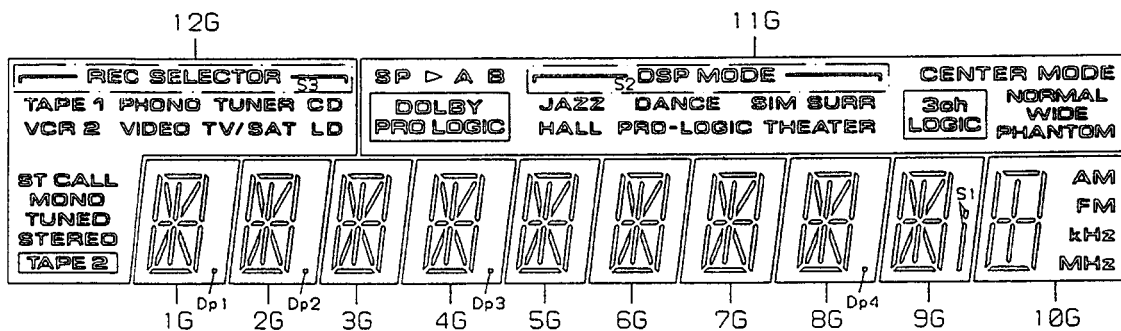


PIN CONNECTION

PIN NO.	1	2	3	4	5	6	7	8	9	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4				
CONNECTION	F	F	N	N	1	2	3	4	5	6	7	8	9	0	1	2	N	N	N	N	N	N	N	N	N	N	N	P	P	P	P	P	P	P	P	P	P	N	N	F	F			
	1	1	P	P	G	G	G	G	G	G	G	G	G	G	G	X	X	X	X	X	X	X	X	X	X	5	4	3	2	1	0	9	8	7	6	5	4	3	2	1	P	P	2	2

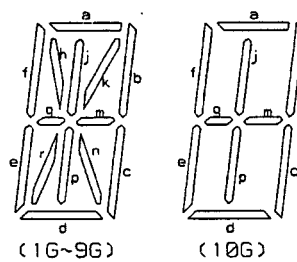
NOTE 1) F1,F2 --- Filament
2) NP ----- No pin
3) NX ----- No extend pin
4) DL ----- Datum Line
5) 1G~12G --- Grid

GRID ASSIGNMENT



ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G	
P 1	a	a	a	a	a	a	a	a	a	a	PHANTOM	ST CALL	
P 2	j	j	j	j	j	j	j	j	j	j	DOLBY PRO LOGIC	MONO	
P 3	k	k	k	k	k	k	k	k	k	AM	WIDE	LD	
P 4	h	h	h	h	h	h	h	h	h	FM	NORMAL	TV/SAT	
P 5	b	b	b	b	b	b	b	b	b	b	3ch LOGIC	VIDEO	
P 6	f	f	f	f	f	f	f	f	f	f	CENTER MODE	VCR 2	
P 7	g	g	g	g	g	g	g	g	g	g	PRO-LOGIC THEATER	-	
P 8	m	m	m	m	m	m	m	m	m	m	HALL	CD	
P 9	c	c	c	c	c	c	c	c	c	c	SIM SURR	TUNER	
P10	e	e	e	e	e	e	e	e	e	e	DANCE	PHONO	
P11	n	n	n	n	n	n	n	n	n	n	KHz	JAZZ	TAPE 1
P12	r	r	r	r	r	r	r	r	r	r	MHz	SP ▷	TUNED
P13	p	p	p	p	p	p	p	p	p	p	A	STEREO	
P14	d	d	d	d	d	d	d	d	d	d	B	TAPE 2	
P15	Dp1	Dp2	-	Dp3	-	-	-	Dp4	Sl	-	S2	S3	



9. IC INFORMATION

- The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

■ PDG118A (IC701) PDG117B (IC701) CONTROL MICROCOMPUTER

● Pin Function

Note : *1 : PDG118A , *2 : PDG117B

No.	NAME	I/O	FUNCTION	ACTIV
1	MR RMC	I	Remote control signal input from sub-room side	H
2	RMC	I	Remote control signal input	H
3	*1: GUI-EN	I	Input for GUI U-COM (SC78213GC) ENABLE	L
	*2: PE5	O	Not used	—
4	*1: GUI-RESET	O	RESET output (SC78213GC, YGV606-F)	L
	*2: PE6	O	Not used	—
5	*1: BACK-UP	O	POWER ON/OFF	H
	*2: PE7/T0	O	Not used	—
6	POWER RY.	O	POWER Relay ON/OFF output	H
7	*1: GUI-CS	O	GUI U-COM (SC78213GC) CS output	L
	*2: OSD-CS	O	OSD IC (M50554-003) CS output	L
8	*1: GUI-CLK	O	GUI U-COM (SC78213GC) CLOCK output	—
	*2: OSD-CLOCK	O	OSD IC (M50554-003) CLOCK output	—
9	*1: GUI-DATA OUT	O	GUI U-COM (SC78213GC) DATA output	—
	*2: OSD-DATA	O	OSD IC (M50554-003) DATA output	—
10	*1: GUI-DATA IN	I	GUI U-COM (SC78213GC) DATA input	—
	*2: VIDEO DET	I	Input for VIDEO signal ON/OFF detection	L
11	CLOCK	O	CLOCK output	—
12	DSP.CE	O	DSP IC CE	L
13	DATA	O	DATA output	—
14	SR. OUT	O	SR signal output	H

No.	NAME	I/O	FUNCTION	ACTIV
15	KEY. IN. 1	I	KEY matrix input 1	—
16	KEY. IN. 2	I	KEY matrix input 2	—
17	KEY. IN. 3	I	KEY matrix input 3	—
18	JOG IN 1	I	JOG input 1	—
19	JOG IN 2	I	JOG input 2	—
20	ST1	O	STROB output 1	H
21	ST2	O	STROB output 2	H
22	M66320 LE	O	VIDEO system IC M66320FP Chip select	H
23	VOLUME IN	I	MASTER VOLUME input (A/D input)	—
24	FAN-T IN	I	FAN TEMPLE input (A/D input)	—
25	FAN-W IN	I	FAN WATTAGE input (A/D input)	—
26	TUNED	I	TUNER signal ON/OFF input	L
27	PLL-DATA	O	PLL IC (LM7001) DATA output	—
28	PLL-CLOCK	O	PLL IC (LM7001) CLOCK output	—
29	PLL-CE	O	PLL IC (LM7001) CE output	H
30	RESET	I	RESET input	L
31	EXTAL	O	Connect a ceramic resonator 8 MHz	—
32	XTAL	I		—
33	Vss	—	GND	—
34	TUNER MUTE	O	MUTE for TUNER	H
35	*1: SR MUTE	O	MUTE output of Remote control signal	H
	*2: PD1/S1	O	Not used	—
36	A. MUTE	O	Audio MUTE	H

**VSX-D903S, VSX-D933S, VSX-53, VSX-D703S,
VSX-D613S, VSX-D603S, VSX-D633S**

Note : *1 : PDG118A , *2 : PDG117B

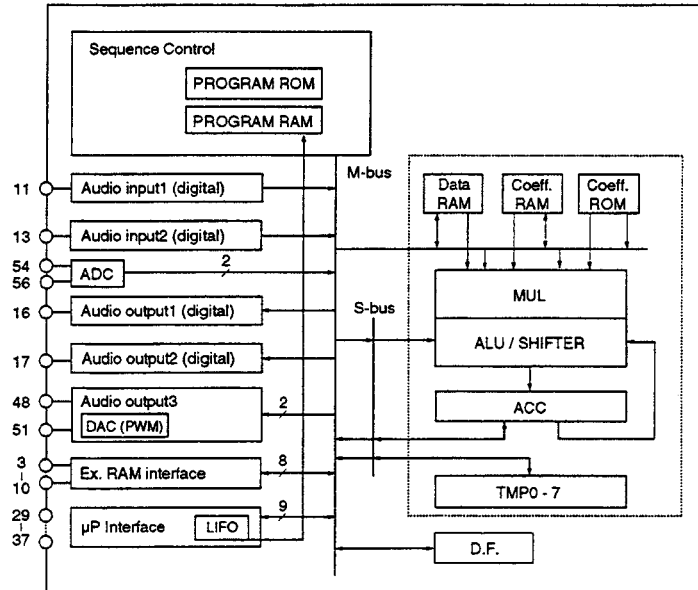
No.	NAME	I/O	FUNCTION	ACTIV												
37	VH/VL	O	SPEAKER both A and B ON : H	H												
38	VOL LED	O	LED for MASTER VOLUME	H												
39	VOL UP	O	MASTER VOLUME control <table><tr><td></td><td>UP</td><td>DOWN</td><td>STOP</td></tr><tr><td>UP</td><td>H</td><td>L</td><td>L</td></tr><tr><td>DOWN</td><td>L</td><td>H</td><td>L</td></tr></table>		UP	DOWN	STOP	UP	H	L	L	DOWN	L	H	L	—
	UP	DOWN		STOP												
UP	H	L		L												
DOWN	L	H		L												
40	VOL DOWN	O														
41	FAN ON/OFF	O	FAN ON/OFF	H												
42	OSD MAIN/SUB	O	OSD MAIN/SUB switching (MAIN/SUB = L/H)	—												
43	DIRECT	O	DIRECT ON/OFF	H												
44	S1 / K.OUT 11	O	FL Segment output 1 / KEY matrix output 11	—												
45	S2 / K.OUT 10	O	FL Segment output 2 / KEY matrix output 10	—												
46	S3/ K.OUT 9	O	FL Segment output 3 / KEY matrix output 9	—												
47	S4/ K.OUT 8	O	FL Segment output 4 / KEY matrix output 8	—												
48	S5 / K.OUT 7	O	FL Segment output 5 / KEY matrix output 7	—												
49	S6 / K.OUT 6	O	FL Segment output 6 / KEY matrix output 6	—												
50	S7 / K.OUT 5	O	FL Segment output 7 / KEY matrix output 5	—												
51	S8 / K.OUT 4	O	FL Segment output 8 / KEY matrix output 4	—												
52	S9 / K.OUT 3	O	FL Segment output 9 / KEY matrix output 3	—												
53	S10 / K.OUT 2	O	FL Segment output 10/ KEY matrix output 2	—												
54	S11 / K.OUT 1	O	FL Segment output 11 / KEY matrix output 1	—												
55	S12	O	FL Segment output 12	—												
56	S13	O	FL Segment output 13.	—												
57	S14	O	FL Segment output 14	—												
58	S15	O	FL Segment output 15	—												
59	G1	O	FL grit output 1	—												
60	G2	O	FL grit output 2	—												
61	G3	O	FL grit output 3	—												
62	G4	O	FL grit output 4	—												
63	G5	O	FL grit output 5	—												

No.	NAME	I/O	FUNCTION	ACTIV
64	G6	O	FL Grit output 6	—
65	G7	O	FL Grit output 7	—
66	G8	O	FL Grit output 8	—
67	G9	O	FL Grit output 9	—
68	G10	O	FL Grit output 10	—
69	G11	O	FL Grit output 11	—
70	G12	O	FL Grit output 12	—
71	Vfdp	—	FL – VF Load power supply input	—
72	Vdd	—	+ 5 V power supply input	—
73	NC	—	+ 5 V	—
74	SP-A	O	SPEAKER A ON/OFF	H
75	SP-B	O	SPEAKER B ON/OFF	H
76	C/R RY	O	CENTER/REAR Relay	H
77	MR RY	O	MULTI ROOM Relay	H
78	STEREO	I	TUNER STEREO input	H
79	WAKE UP	I	AC pulse input	—
80	*1: GUI MUKAI	I	GUI U-COM (SC78213GC) BUSY input	H
	*2: TE2	O	Not used	—

VSX-D903S, VSX-D933S, VSX-53, VSX-D703S, VSX-D613S, VSX-D603S, VSX-D633S

■ PDC017C (IC2012) DSP

● Block Diagram



● Pin Function

(E) : External memory I/F, (A) : Audio I/F, (M) : Microprocessor I/F

No.	NAME	I/O	FUNCTION
1	DWRT (E)	O	External memory write signal output
2	CE/CS (E)	O	External memory enable/select signal output (SRAM, PSRAM, ROM)
3	D7 (E)	I/O	Data I/O (One DRAM:D3 to D0, others:D7 to D0)
4	D6 (E)		
5	D5 (E)		
6	D4 (E)		
7	D3 (E)		
8	D2 (E)		
9	D1 (E)		
10	D0 (E)		
11	ASI1 (A)	I	Audio input
12	BCK1 (A)	I	ASI1 bit clock input
13	ASI2 (A)	I	Audio input
14	BCK2 (A)	I	ASI2 bit clock input
15	LRCKO (A)	O	fs output (LRCKI through output or 1/512 or 1/384 divided output of OSC1)
16	ASO1 (A)	O	Audio output
17	ASO2 (A)		
18	AOWCK (A)	O	2 fs output (1/32 divided output of BCK1 or 1/256 or 1/192 divided output of OSC1)

No.	NAME	I/O	FUNCTION
19	LRCKI (A)	I	fs input (Lch and Rch switching signal)
20	V _{DD}	—	Digital block V _{DD} (Connected to + 5V.)
21	OSC1	I	Connected to crystal Resonator.
22	OSC2	O	Connected to crystal Resonator.
23	V _{SS}	—	Digital block V _{SS} (Connected to GND.)
24	BCKDV	O	32 fs output (1/2 divided output of BCK1 or 1/16 or 1/12 divided output of OSC1)
25	BCKO	O	64 fs output (BCK1 through output or 1/8 or 1/6 divided output of OSC1)
26	FS1280	O	128 fs output (1/4 or 1/3 divided output of SCKI or 1/4 or 1/3 divided output of OSC1)
27	SCKDV	O	192 fs or 256 fs output (1/2 divided output of SCKI or 1/2 divided output of OSC1)
28	SCKO	O	384 fs or 512 fs output (SCKI through output or OSC1 through output)
29	SO (M)	O	Serial data output to control microprocessor (8-bit serial)
30	SOAK (M)	O	Output that indicates serial output is in function.
31	SIACK (M)	O	Output that indicates serial input is in function.
32	SOCK (M)	I	SO transfer clock input
33	SORQ (M)	I	Serial output request signal input

**VSX-D903S, VSX-D933S, VSX-53, VSX-D703S,
VSX-D613S, VSX-D603S, VSX-D633S**

(E) : External memory I/F, (A) : Audio I/F, (M) : Microprocessor I/F

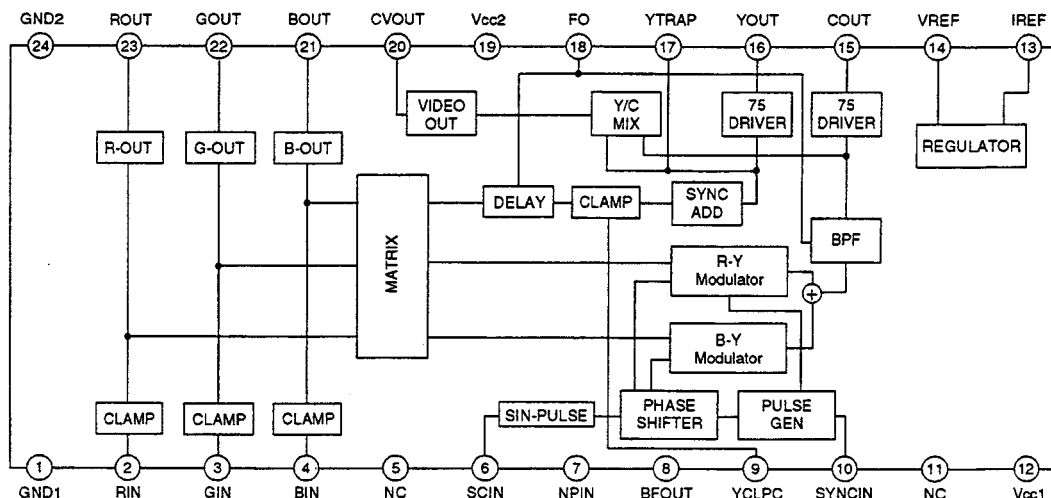
No.	NAME	I/O	FUNCTION
34	$\overline{\text{SRDY}}$ (M)	I	Ready signal input that indicates serial data input from control microprocessor is completed.
35	SICK (M)	I	SI transfer clock input
36	SI (M)	I	Serial data input from control microprocessor (8-bit serial)
37	$\overline{\text{SIRQ}}$ (M)	I	Serial input request signal input
38	SCKI	I	384 fs or 512 fs input
39	$\overline{\text{SELC}}$	I	System clock switching (0: External (SCKI), 1: Internal)
40	TEST6	O	Test (Normally no connection)
41	V _{DD}	—	Digital block V _{DD} (Connected to +5V.)
42	TEST1	I	Test (Normally connected to GND.)
43	TEST2		
44	TEST3		
45	TEST4		
46	TEST5		
47	DALV _{SS}	—	D/A V _{SS} (Lch). Connected to GND.
48	DAOL (A)	O	D/A output (Lch)
49	DALV _{DD}	—	D/A V _{DD} (Lch). Connected to +5V.
50	DARV _{SS}	—	D/A V _{SS} (Rch). Connected to GND.
51	DAOR (A)	O	D/A output (Rch)
52	DARV _{DD}	—	D/A V _{DD} (Rch). Connected to +5V.
53	DZLOUT (A)	O	A/D dither output (Lch)
54	ADL2 (A)	O	A/D output (Lch)
55	ADLV _{SS}	—	A/D V _{SS} (Lch). Connected to GND.
56	ADL1 (A)	I	A/D input (Lch)
57	ADLV _{DD}	—	A/D V _{DD} (Lch). Connected to +5V.
58	ADL3 (A)	O	A/D output (Lch)
59	DZROUT (A)	O	A/D dither output (Rch)
60	ADR2 (A)	O	A/D output (Rch)
61	ADRV _{SS}	O	A/D V _{SS} (Rch). Connected to GND.
62	ADR1 (A)	I	A/D input (Rch)
63	ADRV _{DD}	—	A/D V _{DD} (Rch). Connected to +5V.
64	ADR3 (A)	O	A/D output (Rch)
65	$\overline{\text{SACK1}}$	I	Frequency division switching for creating 128 fs (0: 1/3, 1: 1/4)

No.	NAME	I/O	FUNCTION
66	$\overline{\text{SACK2}}$	I	L/R clock and bit clock switching (0: External, 1: Internal)
67	$\overline{\text{SACK3}}$	I	Input system clock frequency switching (0: 768 fs, 1: 384 fs, or 512 fs)
68	$\overline{\text{RES}}$	I	Reset
69	V _{SS}	—	Digital block V _{SS} (Connected to GND.)
70	V _{DD}	—	Digital block V _{DD} (Connected to +5V.)
71	P0	I/O	General-purpose port (with pull-up)
72	P1		
73	P2		
74	P3		
75	P4		
76	P5		
77	P6		
78	P7		
79	A0 (E)	O	Address output (DRAM access: A9 to A0, others: A16 to A0)
80	A1 (E)		
81	A2 (E)		
82	A3 (E)		
83	A4 (E)		
84	A5 (E)		
85	A6 (E)		
86	A7 (E)		
87	A8 (E)		
88	A9 (E)		
89	V _{DD}	—	Digital block V _{DD} (Connected to +5V.)
90	V _{SS}	—	Digital block V _{SS} (Connected to GND.)
91	A10 (E)	O	Address output (DRAM access: A9 to A0, others: A16 to A0)
92	A11 (E)		
93	A12 (E)		
94	A13 (E)		
95	A14 (E)		
96	A15 (E)		
97	A16 (E)		
98	$\overline{\text{RAS}}$ (E)	O	$\overline{\text{RAS}}$ signal output during DRAM access
99	$\overline{\text{CAS}}$ (E)	O	$\overline{\text{CAS}}$ signal output during DRAM access
100	$\overline{\text{DREAD}}$ (E)	O	External memory read signal output

VSX-D903S, VSX-D933S, VSX-53, VSX-D703S, VSX-D613S, VSX-D603S, VSX-D633S

■ CXA1645M (IC801) RGB TO COMPOSITE-VIDEO ENCODER

● Block Diagram



● Pin Function

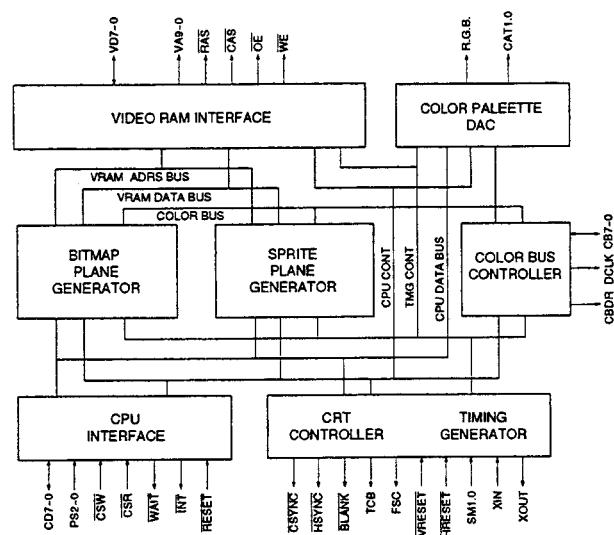
No.	NAME	FUNCTION
1	GND1	GND for circuits other than RGB output, composite video output, and Y/C output circuits.
2	RIN	Analog RGB signal input
3	GIN	
4	BIN	
5	NC	No connection
6	SCIN	Sub-carrier input. Receives sign wave or pulse of 0.4 Vp-p to 5.0 Vp-p input level.
7	NPIN	NTSC and PAL switching. NTSC : Vcc PAL : GND
8	BFOUT	BF pulse monitor output
9	YCLPC	Y signal clamping time constant. Connects 0.1 μ F capacitor between GNDs.
10	SYNCIN	Composite SYNC signal input. TTL level input. L (≤ 0.8 V) : SYNC period H (≥ 2.0 V)
11	NC	No connection
12	Vcc1	Power supply for circuits other than RGB output, composite Video output, and Y/C output circuits.

No.	NAME	FUNCTION
13	IREF	Decides internal reference current. Connects 47 k Ω resistor between GNDs.
14	VREF	Internal reference voltage
15	COUT	C-signal output
16	YOUT	Y-signal output
17	YTRAP	Reduces the cross-color caused by sub-carrier frequency component contained in the Y signal.
18	FO	Adjusts internal filter fo. Connects the following resistors between GNDs according to NTSC/PAL modes. NTSC : 20 k Ω ($\pm 1\%$) PAL : 16 k Ω ($\pm 1\%$)
19	Vcc2	Power supply for RGB output, composite video output, and Y/C output circuits.
20	CVOUT	Composite video signal output
21	BOUT	Analog RGB signal output
22	GOUT	
23	ROUT	
24	GND2	GND for RGB output, composite video output, and Y/C output circuits.

VSX-D903S, VSX-D933S, VSX-53, VSX-D703S,
VSX-D613S, VSX-D603S, VSX-D633S

■ YGV606-F (IC802)
VIDEO DISPLAY PROCESSOR

● Block Diagram



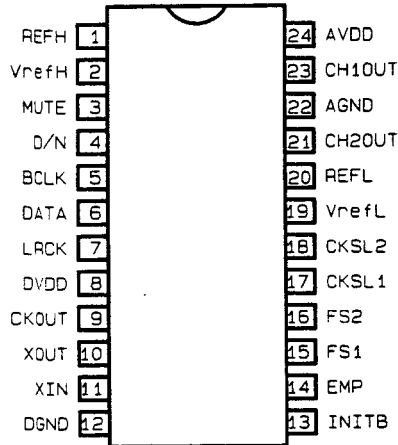
● Pin Function

NAME	FUNCTION
CD7-0	CPU 8-bit bi-directional data bus
PS2-0	I/O port number specification input. Selects P6 to P0 of AVDP.
CSW	Strobe signal input for writing data from CPU to ADVP
CSR	Strobe signal input for reading data from CPU to ADVP
WAIT	Wait signal to CPU
INT	Interruption request signal output to CPU
RESET	Power ON reset signal. Initializes AVDP at low level.
VD7-0	VRAM data bus
VA9-0	VRAM address bus
RAS	DRAM row address strobe for VRAM
CAS	DRAM column address strobe signal for VRAM
OE	DRAM data output enable signal for VRAM
WE	DRAM write enable signal for VRAM
R, G, B	Liner RGB output
CAT1,0	Color code attribute timing output. Generated according to the color pallet AT1 and AT0, and their color code liner RGB output timing.
CB7-0	Display color code input/output with AVDP (2-dot faster than liner RGB)
DCLK	Dot clock output. The input/outputs of CB7 to CB0 are synchronized with this clock.

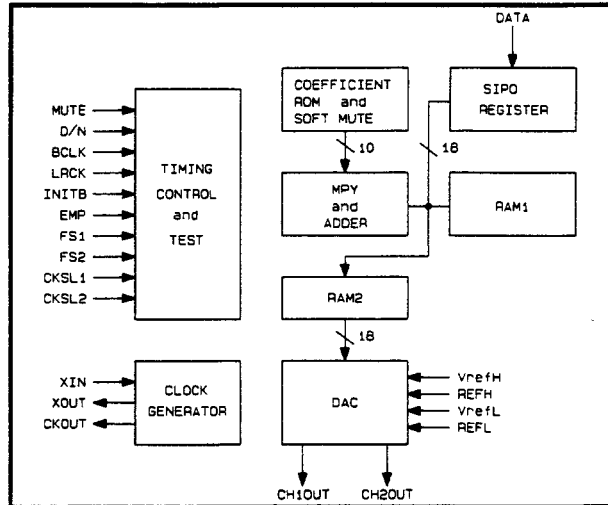
NAME	FUNCTION						
CBDR	Indicates the input/output status of CB7 to CB0. CBDR is "L" : CB7 to CB0 are input. CBDR is "H" : CB7 to CB0 are output.						
CSYNC	Composite SYNC signal output or vertical SYNC signal output						
HSYNC	Horizontal SYNC signal output. Equalizing pulse is not inserted.						
BLANK	Blanking period output						
FSC	Sub-carrier clock output for NTSC video encoder. Valid only in NTSC mode.						
VRESET	Vertical timing reset input						
HRESET	Horizontal timing reset. AVDP horizontal timing is set to the horizontal SYNC start position during falling of this signal. Additionally, the dot clock phase is defined against the main clock.						
TCB	Color burst insertion timing signal output						
SM	Scan mode select input <table><tr><td>SM</td><td>Scan mode</td></tr><tr><td>High</td><td>NTSC</td></tr><tr><td>Low</td><td>PAL</td></tr></table>	SM	Scan mode	High	NTSC	Low	PAL
SM	Scan mode						
High	NTSC						
Low	PAL						
XIN , XOUT	Connected to crystal Resonator. External oscillation clock is input to XIN.						
AVDD,ADSS	RGB analog power supply input						
VDD,VSS	Digital power supply input						
TSTP	Internal circuit test input. Normally "H" or no connection.						

■ LC7883M (IC2008, IC2018 : PROLOGIC-SFC MODULE)
•18-bit Digital Filter and 18-bit D/A Converter, CMOS IC

● Pin Assignment (Top View)



● Block Diagram



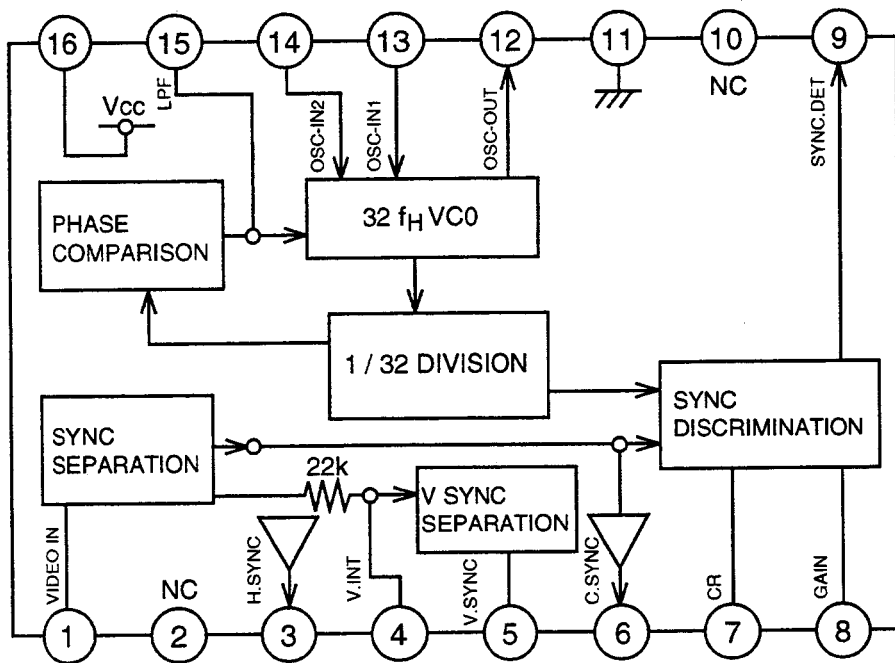
● Pin Function

No.	Name	Description
1	REFH	Reference Voltage "H" Terminal Usually connected to AGND via capacitor.
2	Vref H	Reference Voltage "H" Input Terminal
3	MUTE	Mute Signal Input Terminal "H": Soft Mute ON
4	D/N	Standard/Double Speed Mode Changeover Terminal "H": Double speed; "L": Standard speed
5	BCLK	Bit Clock Input Terminal
6	DATA	Digital Audio Data Input Terminal Inputs with 2'S complement, MSB first
7	LRCK	LR Clock Input Terminal Inputs CH1 with "H" and CH2 with "L".
8	DVDD	Digital System Power Terminal
9	CKOUT	Clock Output Terminal at 392 fs: 196 fs clock excluding 392 fs: XIN frequency clock
10	XOUT	Crystal Oscillator Output Terminal (System Clock Output Terminal)
11	XIN	Crystal Oscillator Input Terminal (System Clock Input Terminal)
12	DGND	Digital System Ground Terminal
13	INITB	Initializing Signal Input Terminal With "L", initializing is performed.

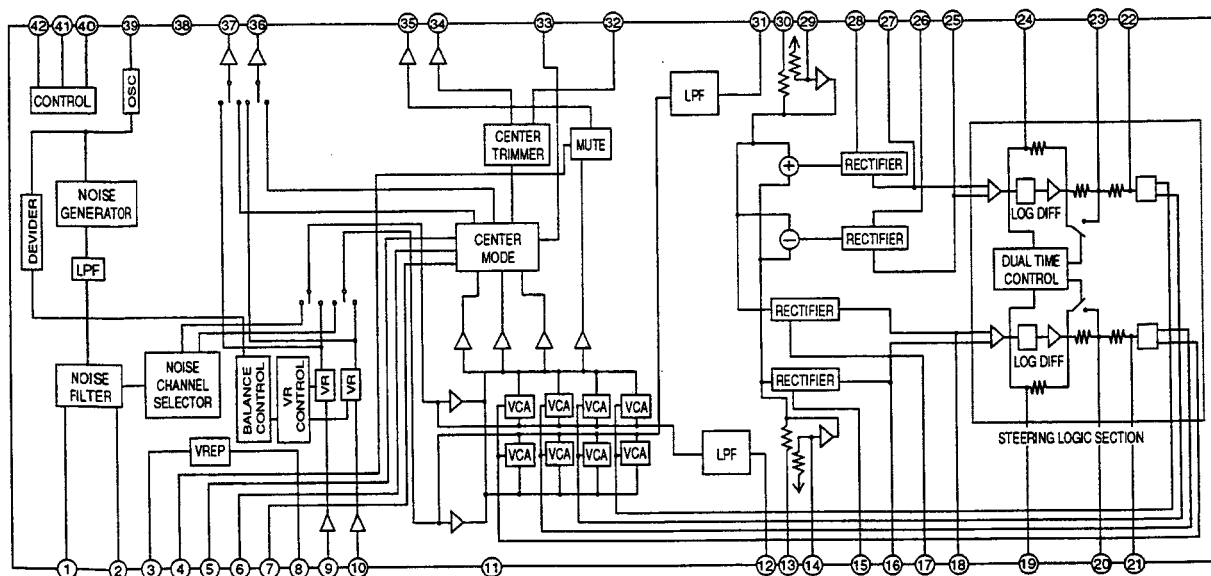
No.	Name	Description															
14	EMP	De-emphasis Filter ON/OFF Changeover Terminal H": ON, "L": OFF															
15	FS1	De-emphasis Filter 32kHz/44.1kHz/48kHz Mode Selection Terminal															
16	FS2	<table><tr><td>FS1</td><td>L</td><td>H</td><td>H</td><td>L</td></tr><tr><td>FS2</td><td>L</td><td>L</td><td>H</td><td>H</td></tr><tr><td>fs</td><td colspan="2">44.1kHz</td><td>32kHz</td><td>48kHz</td></tr></table>	FS1	L	H	H	L	FS2	L	L	H	H	fs	44.1kHz		32kHz	48kHz
FS1	L	H	H	L													
FS2	L	L	H	H													
fs	44.1kHz		32kHz	48kHz													
17	CKSL1	System Clock Selection Terminal															
18	CKSL2	<table><tr><td>CKSL1</td><td>CKSL2</td><td>System Clock</td></tr><tr><td>L</td><td>L</td><td>384 fs</td></tr><tr><td>L</td><td>H</td><td>392 fs</td></tr><tr><td>H</td><td>L</td><td>448 fs</td></tr><tr><td>H</td><td>H</td><td>512 fs</td></tr></table>	CKSL1	CKSL2	System Clock	L	L	384 fs	L	H	392 fs	H	L	448 fs	H	H	512 fs
CKSL1	CKSL2	System Clock															
L	L	384 fs															
L	H	392 fs															
H	L	448 fs															
H	H	512 fs															
19	VrefL	Reference Voltage "L" Input Terminal															
20	REFL	Reference Voltage "L" Terminal Normally connected to AGND via capacitor.															
21	CH2OUT	CH2 Analog Output Terminal															
22	AGND	Analog System Ground Terminal															
23	CH1OUT	CH1 Analog Output Terminal															
24	AVDD	Analog System Power Terminal															

**VSX-D903S, VSX-D933S, VSX-53, VSX-D703S,
VSX-D613S, VSX-D603S, VSX-D633S**

■MM1067XD (IC506)



■LA2785 (IC2001)

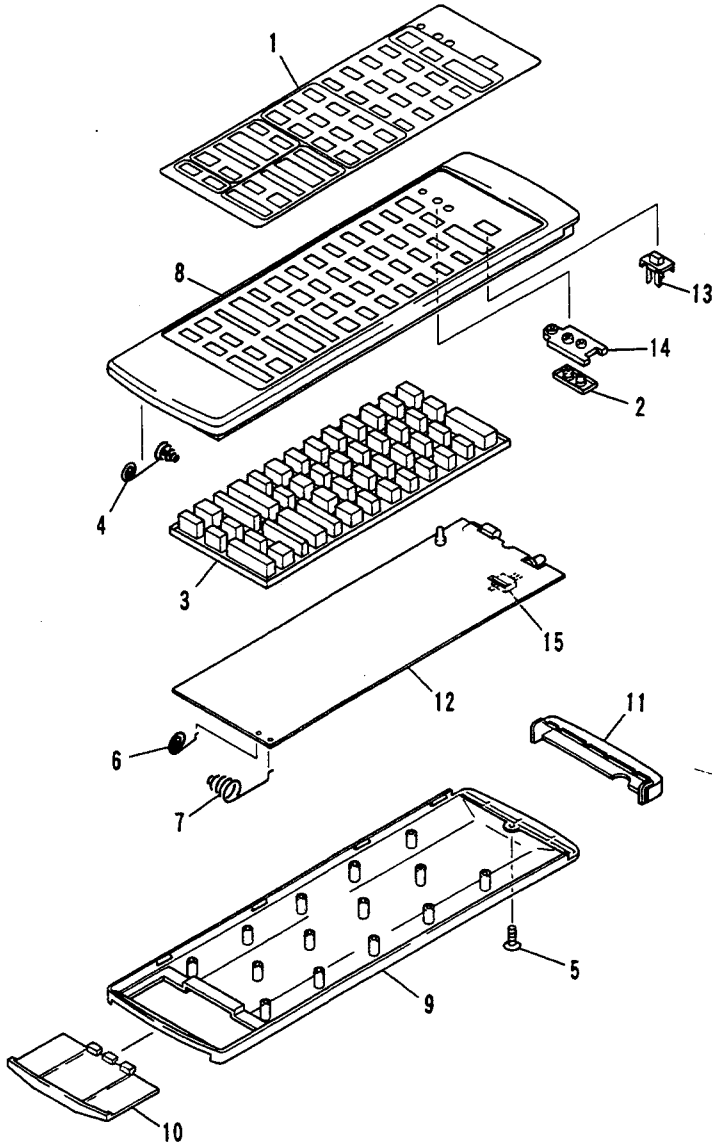


10. REMOTE CONTROL UNIT

10.1 FOR CU-VSX084 (AXD1385)
■EXPLODED VIEW AND PARTS LIST

- NOTES:
- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 - The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 - Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

Parts List			
Mark	No.	Description	Parts No.
	1	PLATE	AZA1984
	2	RUBBER SHEET (A) (S102)	AZA1985
	3	RUBBER SHEET (B) (S103)	AZA1986
	4	TERMINAL	AZB1334
	5	SCREW	AZB1335
	6	TERMINAL (A)	AZB1379
	7	TERMINAL (B)	AZB1380
	8	CASE (A)	AZN2254
	9	CASE (B)	AZN2255
	10	BATTERY COVER	AZN2256
NSP	11	FILTER	AZN2257
	12	P. C. BOARD	AZN2258
	13	KNOB (VIDEO/AUDIO)	AZN2259
	14	FRAME	AZN2260
	15	SLIDE SW (S101)	AZS1134



■ PCB PARTS LIST

- NOTES:
- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 - The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 - Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
 - When ordering resistors, first convert resistance values into code form as shown in the following examples.
- Ex.1 When there are 2 effective digits(any digit apart from 0), such as 560 ohm and 47k ohm(tolerance is shown by J=5%, and K=10%).
- 560 Ω $\rightarrow$ 56 $\times$ 10¹ $\rightarrow$ 561 RD1/8PM $\begin{bmatrix} 5 & 6 & 1 \end{bmatrix}$ J
- 47k Ω $\rightarrow$ 47 $\times$ 10³ $\rightarrow$ 473 RD1/4PS $\begin{bmatrix} 4 & 7 & 3 \end{bmatrix}$ J
- 0.5 Ω $\rightarrow$ 0R5 RN2H $\begin{bmatrix} 0 & 5 \end{bmatrix}$ K
- 1 Ω $\rightarrow$ 010 RSIP $\begin{bmatrix} 0 & 1 & 0 \end{bmatrix}$ K
- Ex.2 When there are 3 effective digits(such as in high precision metal film resistors).
- 5.62k Ω $\rightarrow$ 562 $\times$ 10¹ $\rightarrow$ 5621 RN1/4PC $\begin{bmatrix} 5 & 6 & 2 & 1 \end{bmatrix}$ F

Mark	No.	Description	Parts No.
SEMICONDUCTORS			
	IC1	μ -COM	AZC1841
	IC2	IC	PST9121N
	Q1	CHIP TRANSISTOR	2SC3265
	D1	LED	SE303A-C
	D2	CHIP DIODE	RLS73
	D3	DIODE	SPS-503C-3
	D4, 5	CHIP DIODE	RLS73
	D6	LED	SLC-22VR
CAPACITORS			
	C1	ELECT. CAPACITOR	CEAS221M25
	C2	ELECT. CAPACITOR	CEAS101M10
	C3	ELECT. CAPACITOR	CEAS0R1M50
	C4, 5	CERAMIC CAPACITOR	CCDSL330J50
	C6	ELECT. CAPACITOR	CEAS101M10
	C7	CERAMIC CAPACITOR	CCDSL101J50
	C8	ELECT. CAPACITOR	CEAS0R1M50
RESISTORS			
	R1	CARBON FILM RESISTOR	RD1/4PM020J
		Other resistors	RD1/8PM $\begin{bmatrix} \square & \square & \square \end{bmatrix}$ J
OTHERS			
	X1	RESONATOR	FCR4.0MC3

■ SCHEMATIC DIAGRAM

NOTE FOR SCHEMATIC DIAGRAMS

(Type 2A)

1. When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".

2. Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.

3. RESISTORS:

Unit: k: kΩ, M: MΩ, or Ω unless otherwise noted.

Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted.

Tolerance: (F): ±1%, (G): ±2%, (K): ±10%, (M): ±20% or ±5% unless otherwise noted.

4. CAPACITORS:

Unit: p: pF or μF unless otherwise noted.

Rated voltage: capacitor (μF)/ voltage (V) unless otherwise noted.

Rated voltage: 50V except for electrolytic capacitors.

5. COILS:

Unit: m: mH or μH unless otherwise noted.

6. VOLTAGE AND CURRENT:

□ or - V:

DC voltage (V) at no input signal unless otherwise noted.

□ or - mA:

DC current at no input signal unless otherwise noted.

7. OTHERS:

- ○ or ● : Adjusting point.
- □ : Measurement point.
- The Δ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.

8. SCH-□ ON THE SCHEMATIC DIAGRAM:

- SCH-□ indicates the drawing number of the schematic diagram. (SCH stands for schematic diagram.)

9. SWITCHES (Underline indicates switch position):

S101: AUDIO/VIDEO

S102: LEARN-RESET

S1: RECEIVER POWER

S2: MUTE

S3: MASTER VOLUME -

S4: MASTER VOLUME +

S5: TV POWER

S6: 1

S7: 2

S8: 3

S9: BAND TV FUNC

S10: 4

S11: 5

S12: 6

S13: 0/10

S14: 7

S15: 8

S16: 9

S17: FREQUENCY TV VOLUME -

S18: FREQUENCY TV VOLUME +

S19: STATION TV CHANNEL -

S20: STATION TV CHANNEL +

S21: SURE MODE

S22: 3CH LOGIC

S23: TEST TONE

S24: CENTER MODE (DELAY TIME)

S25: CENTER LEVEL-REAR LEVEL -

S26: CENTER LEVEL-REAR LEVEL +

S27: EFFECT LEVEL -

S28: EFFECT LEVEL +

S29: FUNCTION

S30: TAPE2 MONITOR

S31: DIRECT V-SEL

S32: SLEEP RETURN

S33: DISC SELECT - (DISC SIDE A)

S34: DISC SELECT + (DISC SIDE B)

S35: DECK I (VCR CH -)

S36: DECK II (VCR CH +)

S37: CD/LD

S38: TAPE/VCR

S39: TAPE/VCR

S40: TAPE/VCR

S41: TAPE/VCR

S42: TAPE/VCR

S43: TAPE/VCR

S44: TAPE/VCR

S45: TAPE/VCR

S46: TAPE/VCR

S47: TAPE/VCR

S48: TAPE/VCR

S49: TAPE/VCR

S50: TAPE/VCR

S51: TAPE/VCR

SCH-13

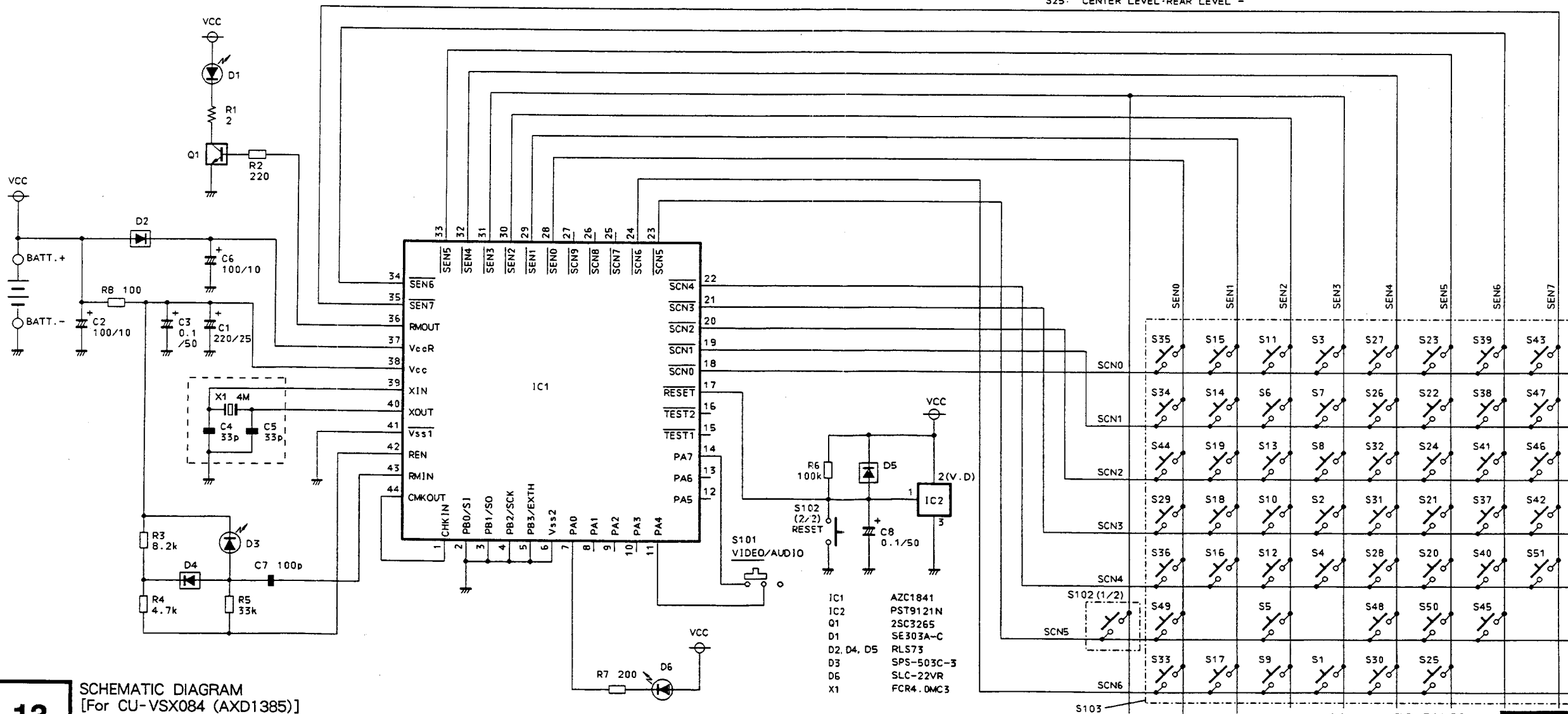
NOTE

□ : Indicates a chip resistor.

□ : Indicates a chip capacitor.

□ : Indicates a chip transistor.

□ : Indicates a chip diode.



SCHEMATIC DIAGRAM
[For CU-VSX084 (AXD1385)]

SCH-13

SCHEMATIC DIAGRAM
[For CU-VSX084 (AXD1385)]

SCH-13

■ PCB PATTERN

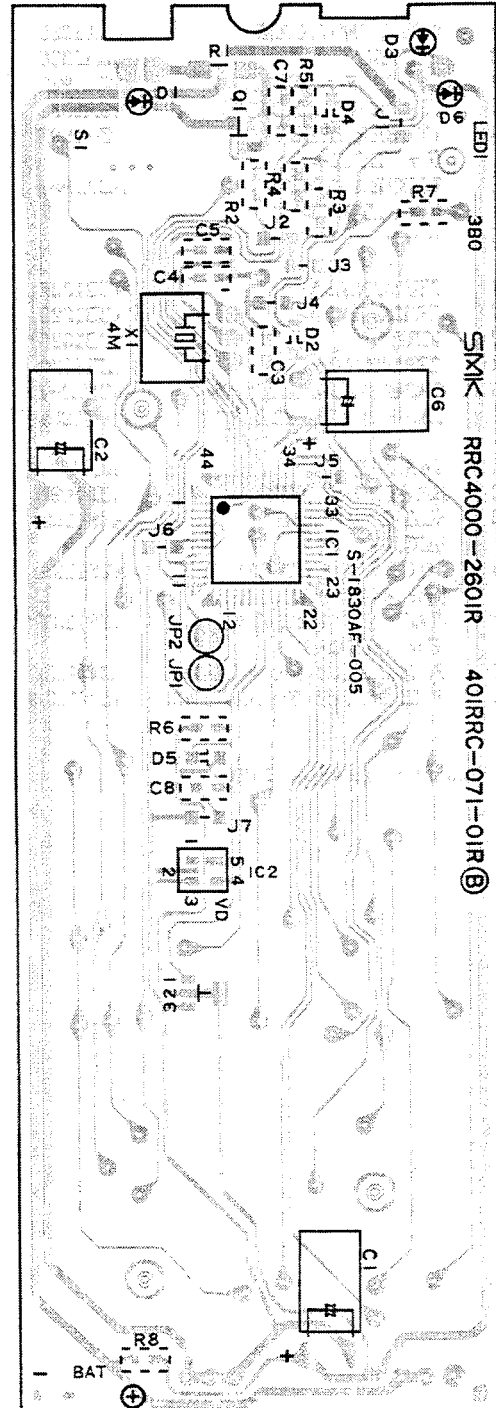
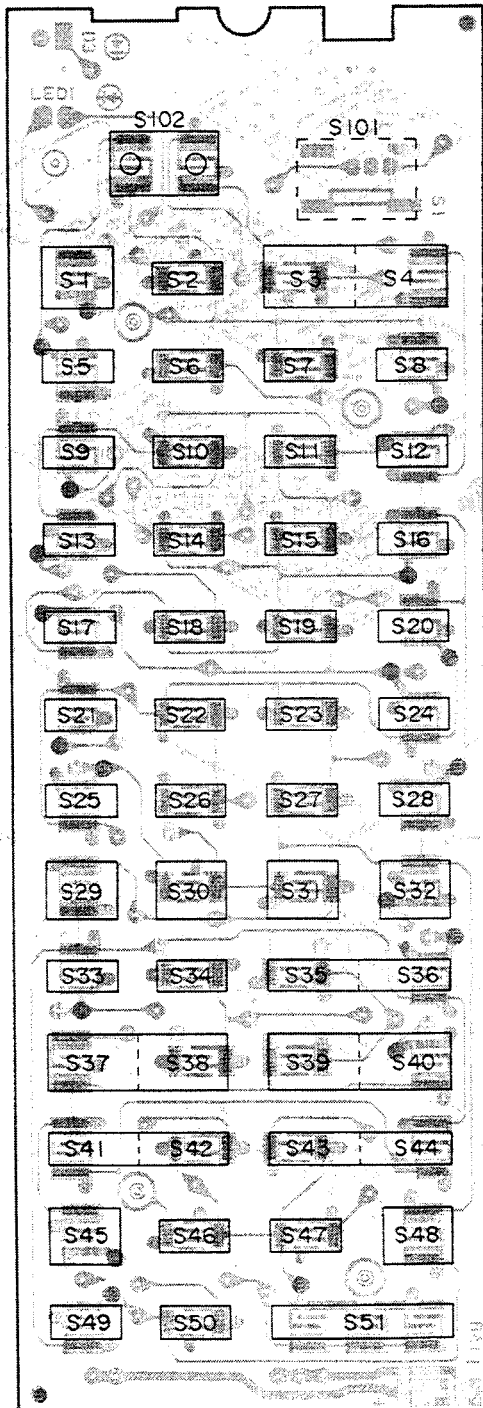
⎓ : Indicates a chip resistor.

⎓ : Indicates a chip capacitor.

⎓ : Indicates a chip transistor.

⊕ : Indicates a chip diode.

PCB-12



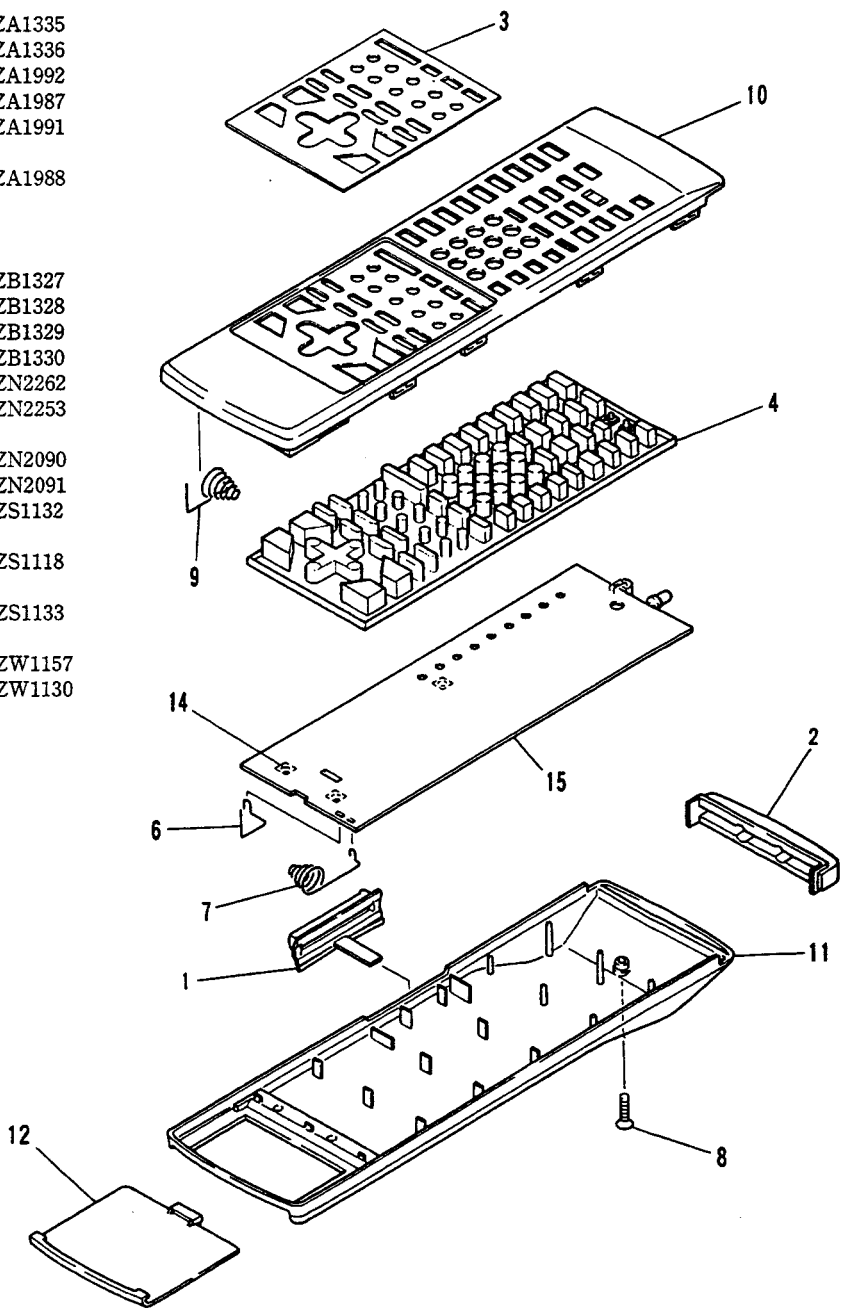
10.2 FOR CU-VSX079 (AXD1394) AND CU-VSX080 (AXD1393)
■EXPLODED VIEW AND PARTS LIST

- NOTES:
- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 - The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 - Parts marked by "☉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

Parts List

Mark	No.	Description	Parts No.
	1	MODE CHECK KEY	AZA1335
	2	FILTER	AZA1336
	3	PLATE (For AXD1394)	AZA1992
	3	PLATE (For AXD1393)	AZA1987
	4	RUBBER SHEET	AZA1991
	4	RUBBER SHEET	AZA1988
	4	(For AXD1394)	
	4	(For AXD1393)	
	5	.....	
	6	TERMINAL (+)	AZB1327
	7	TERMINAL (-)	AZB1328
	8	SCREW	AZB1329
	9	TERMINAL (C)	AZB1330
	10	CASE (A) (For AXD1394)	AZN2262
	10	CASE (A) (For AXD1393)	AZN2253
	11	CASE (B)	AZN2090
	12	BATTERY COVER	AZN2091
	13	SLIDE SW (S101)	AZS1132
	14	TACT SW (S102, S10, S14)	AZS1118
	14	(For AXD1394)	
	14	TACT SW (S102, S10, S14)	AZS1133
	14	(For AXD1393)	
NSP	15	P. C. BOARD (For AXD1394)	AZW1157
NSP	15	P. C. BOARD (For AXD1393)	AZW1130

Note: The illustration shows AXD1394.



**VSX - D903S, VSX - D933S, VSX - 53, VSX - D703S,
VSX - D603S, VSX - D613S, VSX - D633S**

■ PCB PARTS LIST

NOTES:

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 - The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 - Parts marked by "☉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
 - When ordering resistors, first convert resistance values into code form as shown in the following examples.
- Ex.1 When there are 2 effective digits(any digit apart from 0), such as 560 ohm and 47k ohm(tolerance is shown by J=5%, and K=10%).

Ex.1 When there are 2 effective digits(any digit apart from 0), such as 560 ohm and 47k ohm(tolerance is shown by J=5%, and K=10%).

560 $\Omega \rightarrow 56 \times 10^1 \rightarrow 561$ RD1/8PM **561J**

47k Ω $\rightarrow$ 47 $\times 10^3$ $\rightarrow$ 473..... RD1/4PS 473J

0.5 Ω $\rightarrow$ 0R5 RN2H 0 R 5 K

$$I \Omega \rightarrow 010 \dots\dots\dots RSIP \boxed{0} \boxed{1} \boxed{0} K$$

Ex.2 When there are 3 effective digits(such as in high precision metal film resistors).

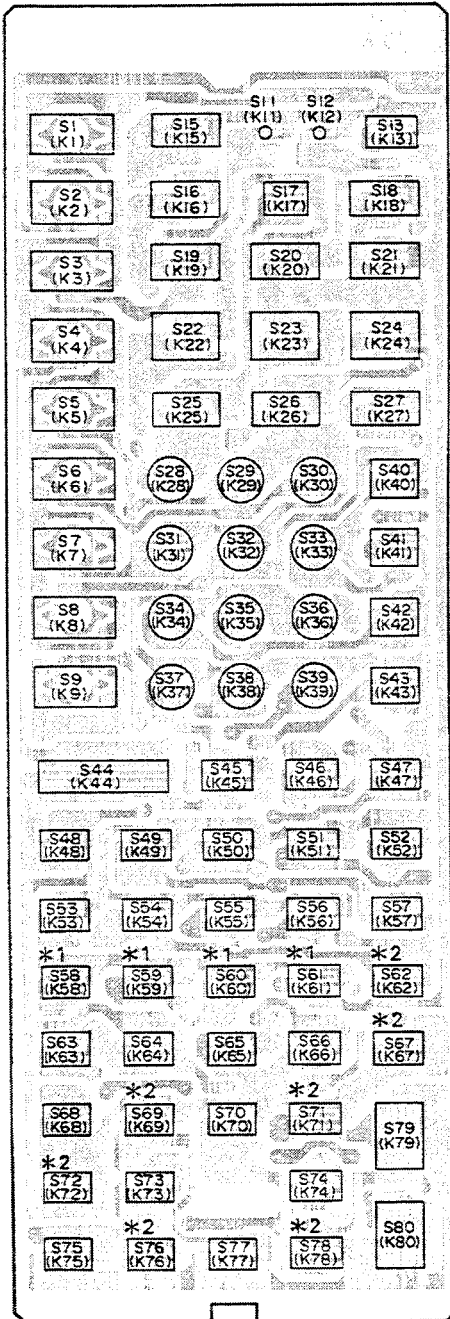
$$5.62k\Omega \rightarrow 562 \times 10^1 \rightarrow 5621 \dots\dots\dots RN1/4PC\boxed{5}\boxed{6}\boxed{2}\boxed{1}F$$

Mark	No.	Description	Parts No.
SEMICONDUCTORS			
	IC1	μ -COM	ACM001-042
	IC2	IC	AZC1564
	IC3	LOGIC IC	TC74HC138AF-TB
	Q1, 2	CHIP TRANSISTOR	2SC3052E
	Q3, 4	TRANSISTOR	2SD1622
	D1-6	DIODE	DWA010-TE
	D9-17	LED	AZC1573
	D7	LED	SLR-938C
	D8	DIODE	SPS-503C-3
CAPACITORS			
	C1, 2	CERAMIC CAPACITOR	CCDSL330J50
	C3	CERAMIC CAPACITOR	CCDSL221J50
	C4	CERAMIC CAPACITOR	CKDYX104M25
	C5	ELECT. CAPACITOR	CEAS470M10
	C6	CERAMIC CAPACITOR	CKDYB103K50
	C7	ELECT. CAPACITOR	CEAS221M10
	C8	ELECT. CAPACITOR	CEAS4R7M50
RESISTORS			
	R7, 8	CARBON FILM RESISTOR	RD1/4PMFL1R5J
		Other resistors	RD1/8PM□□□J
OTHERS			
	X1	RESONATOR	AZC1570

PCB PATTERN

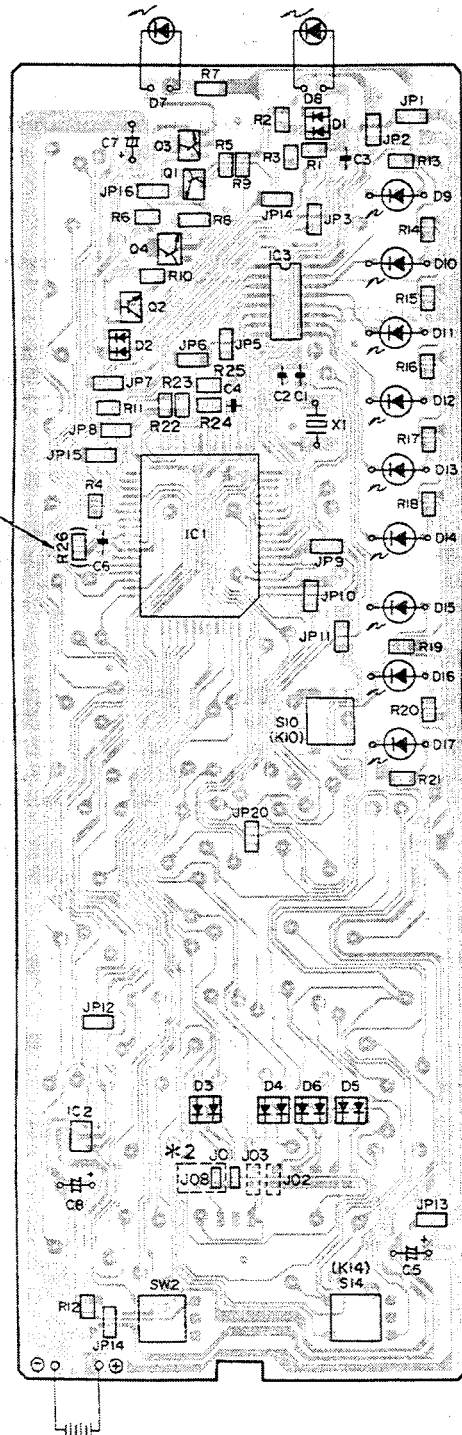
-  : Indicates a chip resistor.
-  : Indicates a chip capacitor.
-  : Indicates a chip transistor.
-  : Indicates a chip diode.

PCB-13



*1: AXD1394 only
*2: AXD1393 only

One time version only



■ SCHEMATIC DIAGRAM

NOTE)

J02 : The terminal for switching Fc (carrier frequency of the fixed code). This terminal is set at OPEN (Fc = 40kHz) when delivered. If a product of another manufacture accidentally receives the PIONEER code, short the terminal so that Fc will be 36.7kHz. (In which case, the learned code and preset code do not change.)

J03 : This remote control saves the learned data, timing data in ROM and other data (such as code data) in RAM. ROM already contains the timing data for other primary manufactures. J03 is a terminal for switching whether or not to use that pre-loaded timing data during learning.

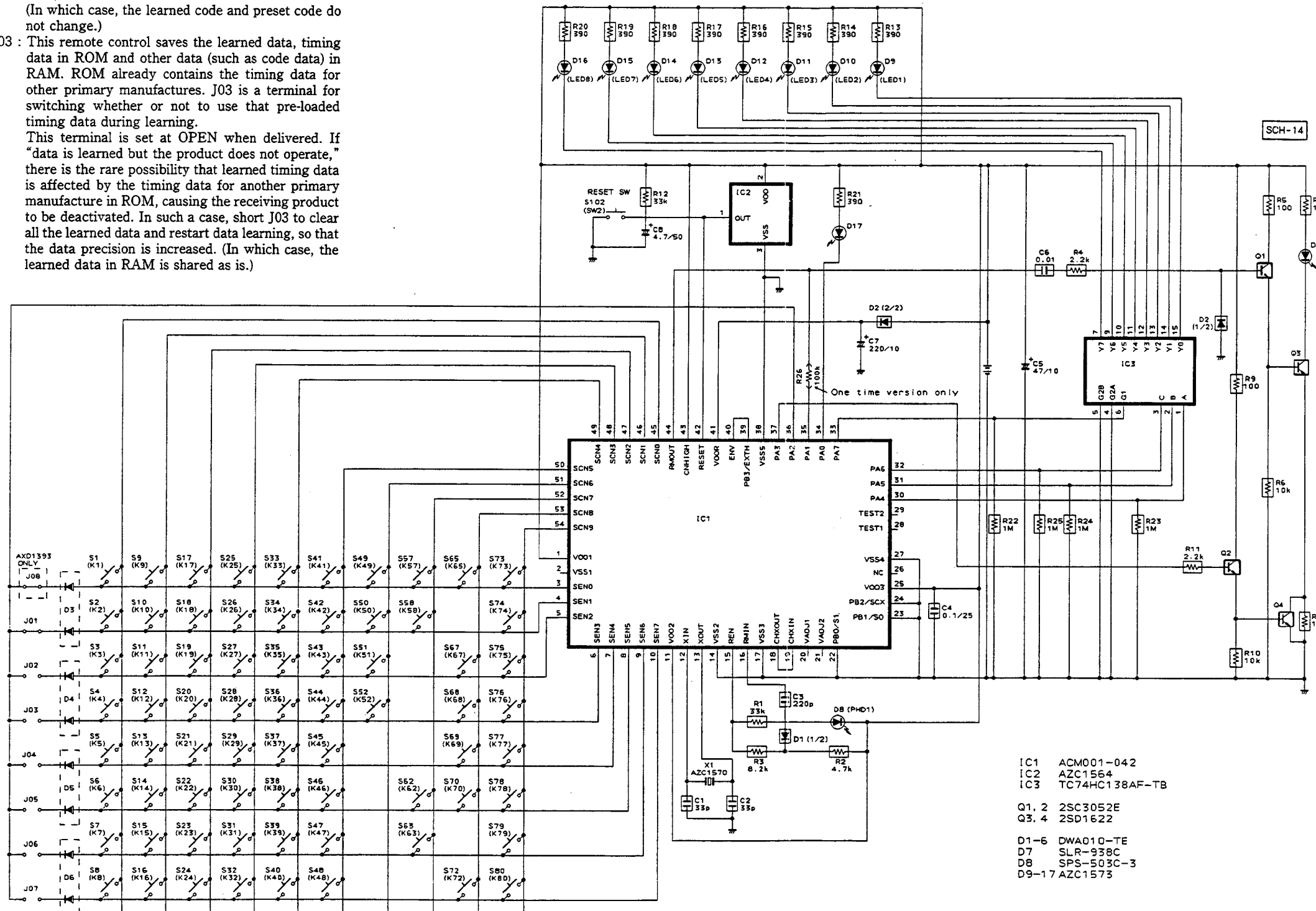
This terminal is set at OPEN when delivered. If "data is learned but the product does not operate," there is the rare possibility that learned timing data is affected by the timing data for another primary manufacture in ROM, causing the receiving product to be deactivated. In such a case, short J03 to clear all the learned data and restart data learning, so that the data precision is increased. (In which case, the learned data in RAM is shared as is.)

NOTE

- ⎓ Indicates a chip resistor.
- ⎓ Indicates a chip capacitor.
- ⎓ Indicates a chip transistor.
- ⎓ Indicates a chip diode.

SWITCHES

- S101: CENT. BAL. / REAR REAR BAL.
- S102: RESET
- S1: VCR1
- S2: VCR2
- S3: LD
- S4: TV
- S5: CD
- S6: TUNER
- S7: DECK 1
- S8: DECK 2
- S9: DAT
- S10: MODE CHECK
- S11: LEARN
- S12: EDIT
- S13: MULTI COMMAND
- S14: M. CLEAR
- S15: POWER
- S16: ⏮
- S17: REC
- S18: ⏪
- S19: ⏩
- S20: ◀ (SEARCH)
- S21: ▶
- S22: ⏮
- S23: ⏭
- S24: ▶
- S25: TV/VCR (+10)
- S26: SELECT (DISP)
- S27: TV FUNC (BAND)
- S28: 1
- S29: 2
- S30: 3
- S31: 4
- S32: 5
- S33: 6
- S34: 7
- S35: 8
- S36: 9
- S37: 10/0
- S38: 11/PGM
- S39: 12/CLEAR
- S40: TV VOL/DISC SEL +
- S41: TV VOL/DISC SEL -
- S42: FREQ/CH (A)
- S43: FREQ/CH (V)
- S44: RECEIVER POWER
- S45: AUTO SOURCE CONTROL 1
- S46: AUTO SOURCE CONTROL 2
- S47: SLEEP
- S48: TAPE1
- S49: TAPE2
- S50: PHONO
- S51: TUNER
- S52: CD
- S53: VCR1
- S54: VCR2
- S55: VIDEO
- S56: TV
- S57: LD
- S58: RETURN
- S59: DIRECT (AXD1394 ONLY)
- S60: V. SEL
- S61: S. BASS
- S62: S. BASS (AXD1393 ONLY)
- S63: SURR. MODE (FOR AXD1394)
- S64: 3CH LOGIC (FOR AXD1394)
- S65: DIRECT (FOR AXD1393)
- S66: DELAY TIME (FOR AXD1394)
- S67: V. SEL (FOR AXD1393)
- S68: MUTING (FOR AXD1394)
- S69: DISPLAY (FOR AXD1393)
- S70: MUTING (AXD1393 ONLY)
- S71: GRAPHIC (FOR AXD1394)
- S72: SURR. MODE (FOR AXD1393)
- S73: 3CH LOGIC (AXD1393 ONLY)
- S74: ▲ (FOR AXD1394)
- S75: CENT. MODE (FOR AXD1393)
- S76: TEST TONE (AXD1393 ONLY)
- S77: REAR LEVEL + (AXD1393 ONLY)
- S78: REAR LEVEL - (FOR AXD1393)
- S79: CENTER LEVEL + (FOR AXD1393)
- S80: CENTER LEVEL - (FOR AXD1393)
- S81: EFFECT LEVEL + (FOR AXD1393)
- S82: EFFECT LEVEL - (FOR AXD1393)
- S83: ENTER (FOR AXD1394)
- S84: REAR LEVEL - (FOR AXD1393)
- S85: CENTER LEVEL - (AXD1393 ONLY)
- S86: V. SEL (FOR AXD1394)
- S87: DELAY TIME (FOR AXD1393)
- S88: EFFECT LEVEL - (AXD1393 ONLY)
- S89: MASTER VOLUME +
- S90: MASTER VOLUME -



SCH-14

SCHEMATIC DIAGRAM
[For CU-VSX079 (AXD1394)]
[For CU-VSX080 (AXD1393)]SCHEMATIC DIAGRAM
[For CU-VSX079 (AXD1394)]
[For CU-VSX080 (AXD1393)]

SCH-14

11. FOR VSX-D903S/KC, SD, VSX-D933S/HL, VSX-D603S/SD, VSX-D613S/KC AND VSX-D633S/HL

NOTES:

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.
Ex.1 When there are 2 effective digits(any digit apart from 0), such as 560 ohm and 47k ohm(tolerance is shown by J=5%, and K=10%).
560 Ω $\rightarrow$ 56 $\times 10^1 \rightarrow$ 561..... RD1/8PM $\begin{smallmatrix} 5 & 6 & 1 \\ J \end{smallmatrix}$
47k Ω $\rightarrow$ 47 $\times 10^3 \rightarrow$ 473..... RD1/4PS $\begin{smallmatrix} 4 & 7 & 3 \\ J \end{smallmatrix}$
0.5 Ω $\rightarrow$ 0R5..... RN2H $\begin{smallmatrix} 0 & R & 5 \\ K \end{smallmatrix}$
1 Ω $\rightarrow$ 010..... RSIP $\begin{smallmatrix} 0 & 1 & 0 \\ K \end{smallmatrix}$
Ex.2 When there are 3 effective digits(such as in high precision metal film resistors).
5.62k Ω $\rightarrow$ 562 $\times 10^1 \rightarrow$ 5621..... RN1/4PC $\begin{smallmatrix} 5 & 6 & 2 & 1 \\ F \end{smallmatrix}$

11.1 CONTRAST OF MISCELLANEOUS PARTS FOR VSX-D903S/KC, SD AND VSX-D933S/HL

VSX-D903S/KC, SD, VSX-D933S/HL and VSX-D903S/KU have the same construction except for the following :

Mark	Symbol & Description	Part No.				Remarks
		VSX-D903S /KU	VSX-D903S /KC	VSX-D903S /SD	VSX-D933S /HL	
NSP	POWER SUPPLY AMP ASSY	AWK1789	AWK1789	AWK1790	AWK1791	
	POWER AMP ASSY	AWZ5402	AWZ5402	AWZ5402	AWZ5594	
	POWER SUPPLY ASSY	AWZ5404	AWZ5404	AWZ5404	AWZ5410	
	PRIM ASSY	AWZ5405	AWZ5405	AWZ5409	AWZ5411	
NSP	R. C. SP ASSY	AWZ5408	AWZ5408	AWZ5408	AWZ5726	
	SW ASSY	AWZ5412	AWZ5412	AWZ5412	.....	
NSP	SMALL SIGNAL ASSY	AWK1796	AWK1796	AWK1796	AWK1866	
	TONE ASSY	AWZ5420	AWZ5420	AWZ5420	AWZ5723	
	VOL ASSY	AWZ5421	AWZ5421	AWZ5421	AWZ5724	
Δ	Capacitor (C1 : 0.1 μ , 250V)	.....	.....	ACE- 507	.....	* 1
Δ	Power transformer (T1) (AC120V)	ATS1545	ATS1545	.....	.....	
Δ	Power transformer (T1) (AC110V/120-127V/220V/240V)	.....	.....	ATS1546	.....	
Δ	Power transformer (T1) (AC220-230V/240V)	.....	.....	.....	ATS1548	
Δ	Voltage selector (S1) (AC110V/120-127V/220V/240V)	.....	.....	AKX- 507	.....	* 1
Δ	Voltage selector (S2) (AC110V, 120-127V/220V, 240V)	.....	.....	AKX1004	.....	* 1
Δ	Slide switch (S3) (CHANNEL STEP/FM DE- EMPHASIS)	.....	.....	ASH1044	.....	* 1
Δ	Fuse holder	.....	.....	AKR1005	.....	* 1
Δ	Fuse (10A, 125V) (FU1)	AEK1035	AEK1035	.....	.....	
Δ	Fuse (T4A, 250V) (FU1)	.....	.....	.....	AEK- 514	
Δ	Fuse (5A, 125V) (FU1, FU2)	.....	.....	AEK- 126	.....	* 1
Δ	Fuse (4A, 125V) (FU3, FU4)	AEK- 125	AEK- 125	AEK- 125	.....	
Δ	Fuse (T3.15A, 250V) (FU3, FU4)	.....	.....	.....	AEK- 513	
Δ	Fuse (1.6A, 125V) (FU5, FU6)	AEK- 121	AEK- 121	AEK- 121	.....	
Δ	Fuse (T1.6A, 250V) (FU5, FU6)	.....	.....	.....	AEK- 510	
Δ	AC power cord	ADG1146	ADG1146	ADG1051	ADG1049	
	Rear panel	ANC2197	ANC2197	ANC2198	ANC2199	

* 1 : Refer to the section " 3.2 INTERIOR ".

Mark	Symbol & Description	Part No.				Remarks
		VSX-D903S /KU	VSX-D903S /KC	VSX-D903S /SD	VSX-D933S /HL	
NSP	Fuse holder fitting metal	.....	.....	ANG- 528	.....	* 1
NSP	Earth plate	.....	.....	ANK1257	ANK1257	* 1
Δ	AC cord stopper	AEP- 113	AEP- 113	AEC- 882	AEC- 882	
NSP	Barrier	.....	.....	AEC1412	.....	* 1
	65 label	ORW1069	.....	.....	.....	
	Screw	VMZ26P040FZK	VMZ26P040FZK	VMZ26P040FZK	.....	
	Front panel	AMB2492	AMB2492	AMB2492	AMB2510	
	Operating instructions (English)	ARB1489	ARB1489	ARB1489	.....	
	Operating instructions (English, Chinese)	.....	.....	.....	ARE1319	
	Operating instructions (Spanish, Chinese)	.....	.....	ARC1479	.....	
	Operating instructions (French)	.....	ARC1478	.....	.....	
	Packing case	AHD2766	AHD2766	AHD2767	AHD2768	

* 1 : Refer to the section " 3.2 INTERIOR ".

POWER AMP ASSY

AWZ5594 and AWZ5402 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5402	AWZ5594	
	C113, C114 C115, C116 C125, C126, C173, C214 C127, C128, C174, C215 C167, C208	CCCSL150K500 CFTXA473J50 CCCSL220K500	CCCSL330K500 CCCSL330K500 CFTXA104J50 CFTXA104J50 CCCSL470K500	
	C168, C209 R121, R122, R171 R129- R132, R175, R176 R139- R142, R180, R181, R220, R221 R147, R148, R184, R223	 RD1/4PMF680J RD1/4PMF101J RD1/4PMF4R7J RD1/4PMF100J	CCCSL470K500 RD1/4PMFL680J RD1/4PMFL101J RD1/4PMFL4R7J RD1/4PMFL100J	

POWER SUPPLY ASSY

AWZ5410 and AWZ5404 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5404	AWZ5410	
	Q361 D352 D361 RY361, RY362 C352 (0.01 μ , AC250V)	XDC143ES D5SB20F HSS104- 02 ASR1027 ACG1005	..... ..... ..... ..... .....	
	R361	RS1PMF471J	.....	

**VSX - D903S, VSX - D933S, VSX - 53, VSX - D703S,
VSX - D603S, VSX - D613S, VSX - D633S**

PRIM ASSY

AWZ5409, AWZ5411 and AWZ5405 have the same construction except for the following :

Mark	Symbol & Description	Part No.			Remarks
		AWZ5405	AWZ5409	AWZ5411	
△	T51	ATT1011	ATT1193	ATT1193	
△	R52 (2.2M Ω , 1/2W)	ACN- 208	.....	.....	
△	AC OUTLET (3P)	AKP1053	AKP1053	.....	

R. C. SP ASSY

AWZ5726 and AWZ5408 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5408	AWZ5726	
	R271	RD1/8PM222J	RD1/8PM332J	

TONE ASSY

AWZ5723 and AWZ5420 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5420	AWZ5723	
	R603, R604 R613, R614	RS1/10S562J RD1/8PM334J	RS1/10S113J RD1/8PM624J	

VOL ASSY

AWZ5724 and AWZ5421 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5421	AWZ5724	
	R5573, R5574 R5583, R5584	RD1/8PM562J RD1/8PM334J	RD1/8PM113J RD1/8PM624J	

**VSX - D903S, VSX - D933S, VSX - 53, VSX - D703S,
VSX - D603S, VSX - D613S, VSX - D633S**

**11.2 CONTRAST OF MISCELLANEOUS PARTS FOR VSX-D603S/SD, VSX-D613S/KC
AND VSX-D633S/HL**

VSX-D603S/SD, VSX-D613S/KC, VSX-D633S/HL and VSX-D603S/KU have the same construction except for the following :

Mark	Symbol & Description	Part No.				Remarks
		VSX - D603S /KU	VSX - D603S /SD	VSX - D613S /KC	VSX - D633S /HL	
NSP	POWER SUPPLY AMP ASSY	AWK1794	AWK1795	AWK1794	AWK1793	
	POWER AMP ASSY	AWZ5402	AWZ5402	AWZ5402	AWZ5594	
	POWER SUPPLY ASSY	AWZ5437	AWZ5437	AWZ5437	AWZ5410	
	PRIM ASSY	AWZ5405	AWZ5409	AWZ5405	AWZ5411	
NSP	R. C. SP ASSY	AWZ5414	AWZ5414	AWZ5414	AWZ5727	
NSP	SMALL SIGNAL ASSY	AWK1799	AWK1799	AWK1799	AWK1867	
	TONE ASSY	AWZ5426	AWZ5426	AWZ5426	AWZ5725	
	VOL ASSY	AWZ5421	AWZ5421	AWZ5421	AWZ5724	
△	Capacitor (C1 : 0.1 μ , 250V)	.....	ACE - 507	.....	.....	* 1
△	Power transformer (T1) (AC120V)	ATS1545	.....	ATS1545	.....	
△	Power transformer (T1) (AC110V/120-127V/220V/240V)	.....	ATS1546	.....	.....	
△	Power transformer (T1) (AC220-230V/240V)	.....	.....	.....	ATS1548	
△	Voltage selector (S1) (AC110V/120-127V/220V/240V)	.....	AKX - 507	.....	.....	* 1
△	Voltage selector (S2) (AC110V, 120-127V/220V, 240V)	.....	AKX1004	.....	.....	* 1
△	Slide switch (S3) (CHANNEL STEP/FM DE-EMPHASIS)	.....	ASH1044	.....	.....	* 1
△	Fuse holder	.....	AKR1005	.....	.....	* 1
△	Fuse (10A, 125V) (FU1)	AEK1035	.....	AEK1035	.....	
△	Fuse (T4A, 250V) (FU1)	.....	.....	.....	AEK - 514	
△	Fuse (5A, 125V) (FU1, FU2)	.....	AEK - 126	.....	.....	* 1
△	Fuse (4A, 125V) (FU3, FU4)	AEK - 125	AEK - 125	AEK - 125	.....	
△	Fuse (T3.15A, 250V) (FU3, FU4)	.....	.....	.....	AEK - 513	
△	Fuse (1.6A, 125V) (FU5, FU6)	AEK - 121	AEK - 121	AEK - 121	.....	
△	Fuse (T1.6A, 250V) (FU5, FU6)	.....	.....	.....	AEK - 510	
△	AC power cord	ADG1146	ADG1051	ADG1146	ADG1049	
	Rear panel	ANC2193	ANC2194	ANC2193	ANC2235	
NSP	Fuse holder fitting metal	.....	ANG - 528	.....	.....	* 1
△	AC cord stopper	AEP - 113	AEC - 882	AEP - 113	AEC - 882	
NSP	Barrier	.....	AEC1412	.....	.....	* 1
	65 label	ORW1069	.....	.....	.....	
	Screw	.....	VMZ26P040FZK	.....	.....	* 1(No.106)
	Front panel	AMB2488	AMB2488	AMB2491	AMB2518	
	Operating instructions (English)	ARB1477	ARB1477	.....	.....	
	Operating instructions (English, French)	.....	.....	ARE1310	.....	
	Operating instructions (English, Chinese)	.....	.....	.....	ARE1320	
	Operating instructions (Spanish, Chinese)	.....	ARC1468	.....	.....	
	Remote control unit (CU - VSX084)	AXD1385	AXD1385	.....	AXD1385	
NSP	Remote control unit (CU - VSX080)	.....	.....	AXD1393	.....	
NSP	Alkaline (LR03, AAA)	AEX1006	AEX1006	.....	AEX1006	
	Alkaline (LR6, AA)	.....	.....	AEX1007	.....	
	Packing case	AHD2753	AHD2754	AHD2755	AHD2770	
	Battery cover (For remote control unit)	AZN2256	AZN2256	AZN2091	AZN2256	

* 1 : Refer to the section " 3.2 INTERIOR ".

**VSX - D903S, VSX - D933S, VSX - 53, VSX - D703S,
VSX - D603S, VSX - D613S, VSX - D633S**

POWER AMP ASSY

AWZ5594 and AWZ5402 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5402	AWZ5594	
	C113, C114 C115, C116 C125, C126, C173, C214 C127, C128, C174, C215 C167, C208 C168, C209 R121, R122, R171 R129-R132, R175, R176 R139-R142, R180, R181, R220, R221 R147, R148, R184, R223	CCCSL150K500 CFTXA473J50 CCCSL220K500 RD1/4PMF680J RD1/4PMF101J RD1/4PMF4R7J RD1/4PMF100J	CCCSL330K500 CCCSL330K500 CFTXA104J50 CFTXA104J50 CCCSL470K500 CCCSL470K500 RD1/4PMFL680J RD1/4PMFL101J RD1/4PMFL4R7J RD1/4PMFL100J	

POWER SUPPLY ASSY

AWZ5410 and AWZ5437 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5437	AWZ5410	
	Q361 D352 D361 RY361, RY362 C352 (0.01 μ , AC250V) R361	XDC143ES D5SB20F HSS104-02 ASR1027 ACG1005 RS1PMF471J	..... ..... ..... ..... ..... .....	

PRIM ASSY

AWZ5409, AWZ5411 and AWZ5405 have the same construction except for the following :

Mark	Symbol & Description	Part No.			Remarks
		AWZ5405	AWZ5409	AWZ5411	
△ △ △	T51 R52 (2.2M Ω , 1/2W) AC OUTLET (3P)	ATT1011 ACN-208 AKP1053	ATT1193 AKP1053	ATT1193	

R. C. SP. ASSY

AWZ5727 and AWZ5414 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5414	AWZ5727	
	R271	RD1/8PM222J	RD1/8PM332J	

**VSX - D903S, VSX - D933S, VSX - 53, VSX - D703S,
VSX - D603S, VSX - D613S, VSX - D633S**

TONE ASSY

AWZ5725 and AWZ5426 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5426	AWZ5725	
	R603, R604 R613, R614	RS1/10S562J RD1/8PM334J	RS1/10S113J RD1/8PM624J	

VOL ASSY

AWZ5724 and AWZ5421 have the same construction except for the following :

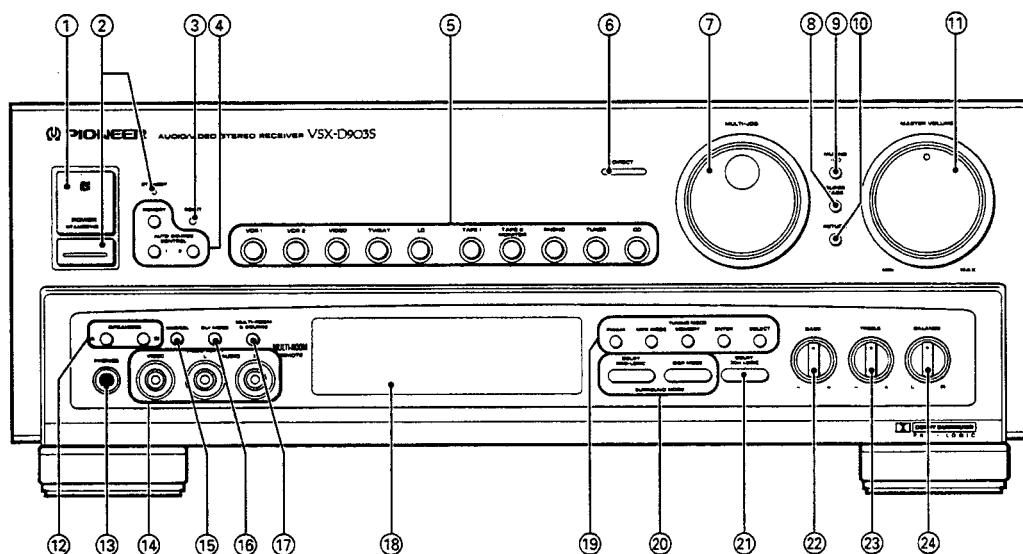
Mark	Symbol & Description	Part No.		Remarks
		AWZ5421	AWZ5724	
	R5573, R5574 R5583, R5584	RD1/8PM562J RD1/8PM334J	RD1/8PM113J RD1/8PM624J	

12. PANEL FACILITIES

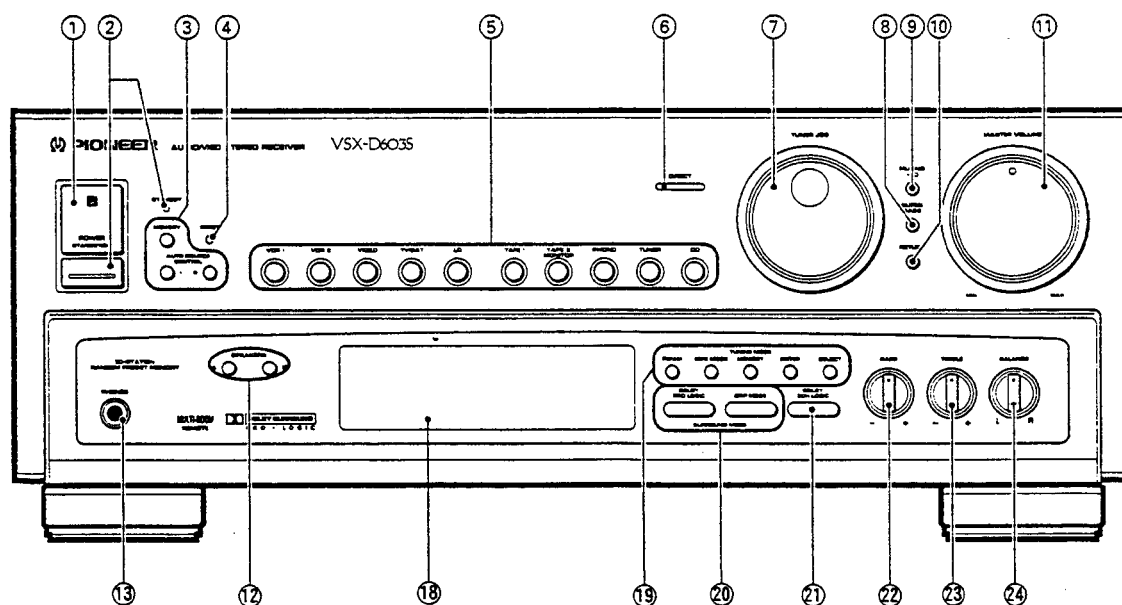
12.1 FRONT PANEL FACILITIES

■ FOR VSX-D903S, VSX-53 AND VSX-D703S MODELS

•Illustration shows VSX-D903S model.



■ FOR VSX-D603S MODEL



**VSX-D903S, VSX-D933S, VSX-53, VSX-D703S,
VSX-D613S, VSX-D603S, VSX-D633S**

① Remote sensor

② POWER STANDBY/ON switch/STANDBY indicator

This is the switch for electric power.

ON : When set to the ON position, power is supplied and the unit becomes operational.

STANDBY : When set to STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness.

The STANDBY indicator lights when the power is STANDBY, and goes out during ON.

[Timer ON/OFF possible]

When the unit is switched ON, ON/OFF control can be performed by means of the optional timer.

NOTE:

When the power is initially turned ON, muting will be applied to prevent sound from being output for about 5 seconds.

③ RESET button

Use this when normal operation becomes impossible because of external influences such as static electricity or lightning, or when operation is impossible even when operation buttons are pressed. Press this button to return to normal operating conditions. (The input selector automatically switches to TUNER, and SPEAKERS A and B switch off.)

If you press this button when the power is ON, the unit switches to POWER STANDBY.

④ AUTO SOURCE CONTROL/MEMORY buttons

1, 2 buttons:

These buttons are for memorizing and recalling your current settings. Both 1 and 2 can be used to memorize settings. If you connect another component, such as a CD player, to the CONTROL OUT jack on the rear panel, the signals to switch power on and start play are also transmitted.

MEMORY:

Use when memorizing settings to a 1, 2 button.

⑤ Input selector buttons

VCR 1 : Press when performing playback on a first VCR unit.

VCR 2 : Press when performing playback on a second VCR unit.

VIDEO : Press when performing playback on a VCR connected to VIDEO INPUT jacks on the front panel.

TV/SAT : Press when using a TV tuner connected to the TV/ SAT jacks.

LD : Press when performing playback on an LD player.

TAPE 1 : Press when performing playback on a cassette deck.

TAPE 2 MONITOR

: Press when performing playback on a second cassette deck and when monitoring recording.

PHONO : Press when playing records on turntable.

TUNER : Press when listening to radio broadcasts.

CD : Press when playing compact discs on a CD player.

⑥ DIRECT button

Press this to listen to source sound without passing the audio signal through sound quality and balance adjusting circuitry.

The surround mode, super bass, and rear and center speakers are automatically switched off.

⑦ MULTI-JOG (VSX-D903S model only)

Use during tuner operation to select frequencies and station numbers. During GUI operation, use to move the on-screen cursor.

⑦ TUNER JOG

(VSX-53, VSX-D703S and VSX-D603S models only)

Use to tune into a broadcast.

⑧ SUPER BASS button

Switch on when you want to boost bass. This does not operate when the DIRECT button is on.

⑨ MUTING button

Press to temporarily cut off the sound volume. When pressed again, the sound will return to its previous level.

⑩ RETURN button

Press this button to return the receiver into the initial state. TUNER is selected at this initial state. Adjust the sound level by using the MASTER VOLUME control.

• TAPE 2 MONITOR OFF • FUNCTION TUNER
• SURROUND MODE OFF • V-SIGNAL SELECTOR OFF
• MUTING OFF

And SPEAKERS buttons switch as follows.

Before pressing the RETURN button		After pressing
Both A and B are off	→	Only A is on
Only A is on	→	No change
Only B is on	→	Both A and B are on
Both A and B are on	→	No change

NOTE:

Press the RETURN button, and the frequency last selected is received. If reception of a station is not possible with that frequency, the mode automatically switches to AUTO TUNING.

⑪ MASTER VOLUME control

Use it to simultaneously adjust the sound volume from the front, center, and rear speakers.

⑫ SPEAKERS buttons (A, B)

ON/OFF switches for the A and B speaker systems. (Indicator in the display section lights.)

⑬ PHONES jack

Connect the plug on your headphones to this jack. Set the surround mode and all SPEAKERS A and B switches to OFF if you want to cut the sound from speakers and listen to it only through the headphones.

⑭ VIDEO INPUT jacks

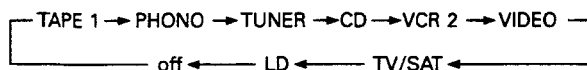
(VSX-D903S, VSX-53 and VSX-D703S models only)

VIDEO components such as a VCR or TV camera, etc. can be connected.

⑮ REC SEL (Recording Selector) button

You can select the component to be recorded from, on VCR 1 without using the input selector.

Each time you press the REC SEL button, the components change in the following order.



When the REC SELECTOR has been through all the components once, REC SELECTOR switches off.

⑯ GUI MODE button (VSX-D903S model only)

Switches GUI MODE on and off.

⑰ OSD SUB ROOM button (VSX-53 model only)

Use in combination with the separately sold MR-100 Multi-Room remote control unit.

You can watch the OSD (On Screen Display) on a TV in the sub room.

⑱ MULTI-ROOM & SOURCE button

(VSX-D903S and VSX-53 models only)

Use in combination with the separately sold MR-100 Multi-Room remote control unit.

When this button is on, the source selected with the input selector at that time is set to the Sub room function. The selected sub-function's sound is output through SUB ROOM SPEAKERS, and the video signal is output through the MULTI-ROOM VIDEO OUT jack. If you install speaker systems connected to the MULTI-ROOM SPEAKERS terminals in a different room, you can enjoy different sources in two different rooms with a single main unit.

⑲ Display section

⑲ TUNING MODE buttons

FM/AM : Use this to switch between FM and AM frequency band reception.

MPX MODE : Use to select the auto stereo mode or monaural mode when listening to FM broadcasts. The monaural mode has been selected when the FM MONO indicator in the display section is lit.

Auto stereo mode:

Normally, leave in this mode for reception. When a stereo FM broadcast is received, it will be automatically reproduced in stereo.

Monaural mode:

When receiving distant stations or stations with weak broadcast signals, the input signal may be weak, thus resulting in increased noise during FM stereo broadcasts. In this event, setting the receiver to the monaural mode will reduce the noise. In this case, however, FM stereo broadcasts will be reproduced in monaural sound.

NOTE:

This button has no effect on reception of AM broadcasts.

MEMORY : Press this button to switch to the frequency preset mode.

ENTER : If you press this when in the frequency preset mode, the displayed frequency is memorized in the selected station. (Frequency and station indications flash and then light.)

SELECT : Press this to switch to the station mode. Then you can turn the MULTI-JOG to select a station.

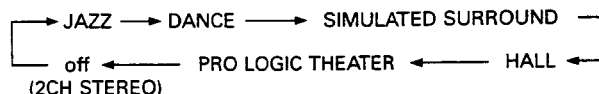
⑳ SURROUND MODE buttons

DOLBY PRO-LOGIC:

Switches DOLBY PRO-LOGIC SURROUND on and off.

DSP MODE:

Each time you press it, the mode and the display indications change as follows:



㉑ DOLBY 3CH LOGIC button

Select this setting when stereo-source regeneration and rear speakers are not connected and you wish to use the front L, front R, and center speakers to enjoy audio/visual material bearing the **DOLBY SURROUND** mark.

㉒ BASS control

Use to adjust the low-frequency level. Turn clockwise to boost bass, and counterclockwise to attenuate bass. This does not operate when the DIRECT button is on.

㉓ TREBLE control

Use to adjust the high-frequency level. Turn clockwise to boost treble, and counterclockwise to attenuate treble. This does not operate when the DIRECT button is on.

㉔ BALANCE control

Use to adjust the sound volume balance between left and right speakers. This does not operate when the DIRECT button is on.

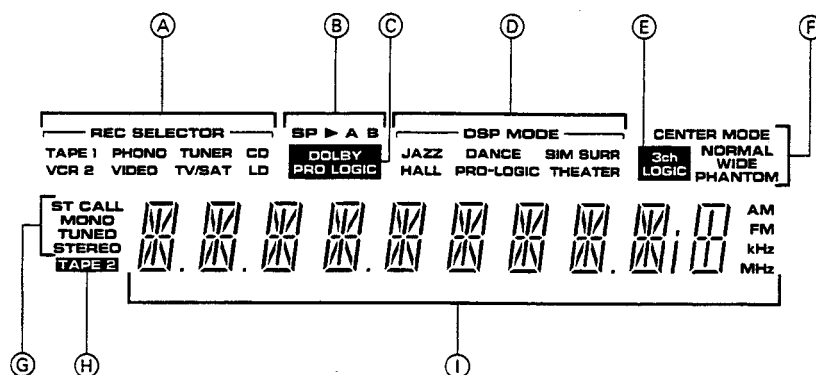
L: Decrease the sound on the right side.

R: Decrease the sound on the left side.

Usually, left and right volume levels should be the same.

**VSX-D903S, VSX-D933S, VSX-53, VSX-D703S,
VSX-D613S, VSX-D603S, VSX-D633S**

DISPLAY SECTION



Ⓐ REC SELECTOR indicators

The recording source selected with the REC SEL button is usually displayed.

Ⓑ SP (SPEAKERS) A, B indicators

Shows which speaker system (or systems) are switched on.

Ⓒ DOLBY PRO LOGIC indicator

Ⓓ DSP MODE indicators

Ⓔ DOLBY 3CH LOGIC indicator

Ⓕ CENTER MODE indicators

These display the center mode (NORMAL, WIDE, PHANTOM) during DOLBY PRO-LOGIC SURROUND, PRO LOGIC THEATER and DOLBY 3CH LOGIC operation.

Ⓖ Tuning indicators

ST (STATION) CALL

: Press the SELECT button to switch to the station mode, and this indicator lights.

MONO

: Lights up when the FM MONO mode is selected with the MPX MODE button.

TUNED

: Lights up when a station is tuned.

STEREO

: Lights up when a stereo FM broadcast is being received.

Ⓗ TAPE 2 indicator

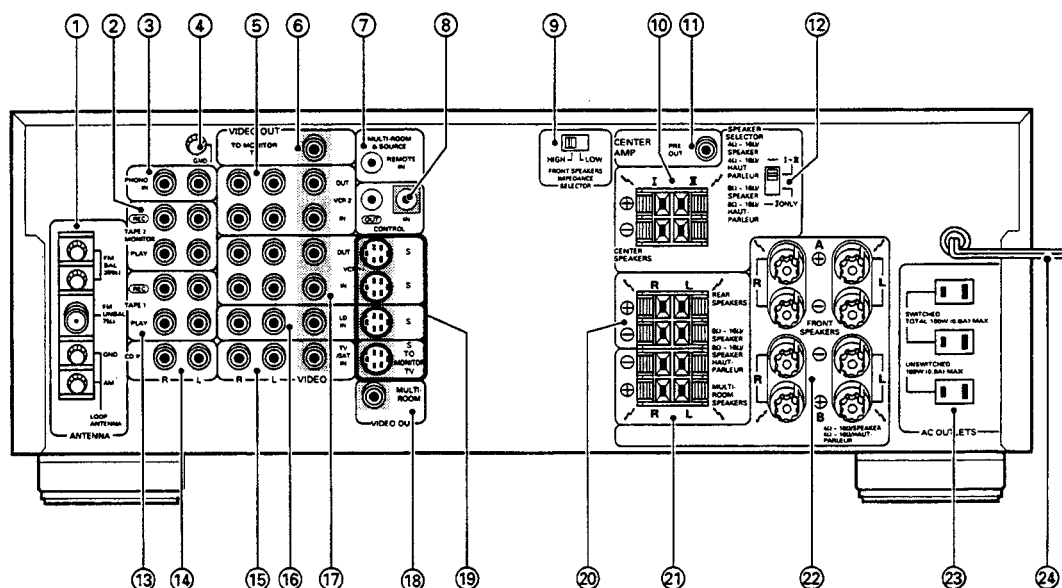
Lights up when the input selector is set to TAPE 2 MONITOR on.

Ⓘ CHARACTER display

12.2 REAR PANEL FACILITIES

■ FOR VSX-D903S AND VSX-53 MODELS

•Illustration shows VSX-D903S U.S. and Canadian model.



① FM/AM ANTENNA terminals

Use these antenna terminals for reception of normal FM and AM broadcasts.

② TAPE 2 MONITOR jacks

Connect the second cassette deck to these jacks.

Connecting for Recording

The tape recording jack (REC) on the cassette deck should be connected to the REC side of the TAPE 2 MONITOR jack on the receiver with a pin plug connecting cord.

Connecting for Playback

Connect the TAPE PLAY jack on the cassette deck to the PLAY side of the TAPE 2 MONITOR jack on the receiver with a pin plug connecting cord.

③ PHONO input jacks

Connect to the output cables from a turntable.

④ GND terminal

Connect the turntable ground lead to this terminal.

⑤ VCR 2 jacks

[VIDEO OUT]

When copying program material from the video component connected to the VCR 1, TV, VIDEO (front) or LD jacks, connect to the VIDEO INPUT jacks of the VCR used for recording.

[AUDIO IN (L, R)]

When copying program materials from the video component connected to the VCR 1, TV, VIDEO (front) or LD jacks, or when recording music from an audio component source, connect to the AUDIO INPUT jacks of the VCR used for recording.

[VIDEO IN]

When monitoring the video image from a VCR used for copying, connect its VIDEO OUTPUT jacks here.

[AUDIO IN (L, R)]

When monitoring the audio channel from a VCR used for copying, connect its AUDIO OUTPUT jacks here.

⑥ VIDEO OUT (TO MONITOR TV) jack

Connect to monitor TV or to TV sets with video input terminals for watching program materials from a VCR 1, 2, TV, VIDEO (front) or LD player connected to this unit.

⑦ MULTI-ROOM & SOURCE REMOTE IN jack

When using the MULTI-ROOM & SOURCE function, connect to the separately sold MR-100 Multi-Room remote control unit.

VSX-D903S, VSX-D933S, VSX-53, VSX-D703S, VSX-D613S, VSX-D603S, VSX-D633S

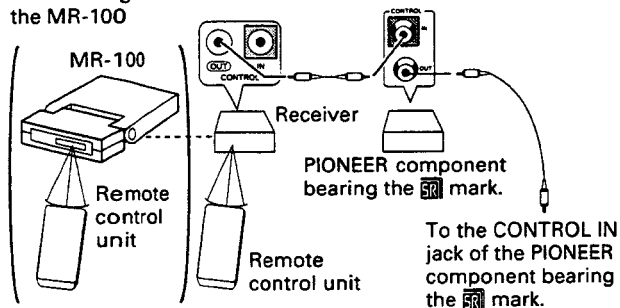
⑧ CONTROL IN/OUT jacks

- IN** : Connect this jack to other PIONEER components (main unit or remote control unit) when using those components to control this unit.
- OUT** : Connect this jack to other PIONEER components when using the remote control of this unit to control the other components.

NOTE:

The receiver's remote sensor does not function when a plug is inserted in the IN jack. To operate, point the remote control unit at the remote sensor on the component to which the receiver's IN jack is connected.

When using the MR-100



⑨ FRONT SPEAKERS IMPEDANCE SELECTOR switch

Set this switch to match the nominal impedance of your front speakers.

NOTE:

Turn off the receiver's power before changing the impedance selector switch setting.

⑩ CENTER SPEAKERS terminals

Connect the center speaker to these terminals. You can connect two speakers for dual center, so you can locate speakers on both sides of the TV.

Speaker impedance:

Refer to ⑫ CENTER SPEAKER SELECTOR switch.

NOTE:

Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctioning or breakdowns may occur when conductors come into contact with each other.

⑪ CENTER AMP PRE OUT jack

When a separate power amplifier is used to drive the surround center speaker, connect the power amplifier to this jack.

⑫ CENTER SPEAKER SELECTOR switch

This switch changes the speaker impedance for when only one center speaker is connected, or two speakers are connected.

When only one speaker is connected:

Be sure to set the switch to "I ONLY" (down side), and always connect a speaker with an impedance of $8\Omega - 16\Omega$ to the I terminal.

When two speakers are connected:

Be sure to set the switch to "I + II" (up side), and always use speaker with an impedance of $4\Omega - 16\Omega$.

NOTE:

Switch the CENTER SPEAKER SELECTOR when the unit power supply is at STANDBY. Do not switch the selector when the power supply is at ON.

⑬ TAPE 1 jacks

Use these to connect the cassette deck.

Connecting for Recording

The tape recording jack (REC) on the cassette deck should be connected to the REC side of the TAPE 1 jack on the receiver with a pin plug connecting cord.

Connecting for Playback

Connect the PLAY jack on the cassette deck to the PLAY side of the TAPE 1 jack on the receiver with a pin plug connecting cord.

⑭ CD input jacks

Connect to the output jacks of a compact disc player.

⑮ TV/SAT (Satellite) jacks (input)

Use these jacks if you wish to connect a TV tuner with both video and audio outputs.

[VIDEO IN]

Connect the TV tuner's VIDEO OUTPUT to this jack.

[AUDIO IN (L, R)]

Connect the TV tuner's AUDIO OUTPUT to these jacks.

⑯ LD jacks

[VIDEO IN]

When watching the video image from an LD player, connect its VIDEO OUTPUT jacks here.

[AUDIO IN (L, R)]

When playing back the audio channel from an LD player, connect its AUDIO OUTPUT jacks here.

⑰ VCR 1 jacks

[VIDEO OUT]

When copying program material from the video component connected to the VCR 2, TV, VIDEO (front) or LD jacks, connect to the VIDEO INPUT jacks of the VCR used for recording.

[AUDIO OUT (L, R)]

When copying program material from the video component connected to the VCR 2, TV, VIDEO (front) or LD jacks, or when recording music from an audio component source, connect to the AUDIO INPUT jacks of the VCR used for recording.

[VIDEO IN]

When monitoring the video image from a VCR used for playing, connect its VIDEO OUTPUT jacks here.

[AUDIO IN (L, R)]

When monitoring the audio channel from a VCR used for playing, connect its AUDIO OUTPUT jacks here.

⑱ MULTI-ROOM VIDEO OUT jack

Connect the monitor TV for use in the Sub room.

⑲ S (connector) video jacks

When used in conjunction with a VCR, Video disc player (LaserDisc player), or TV monitor equipped with S video jacks, connect to these jacks.

⑳ REAR SPEAKERS terminals

Connect the rear speakers to these terminals.

NOTE:

Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctioning or breakdowns may occur when conductors come into contact with each other.

Use rear speakers with impedance of 8 Ω — 16 Ω .

㉑ MULTI-ROOM SPEAKERS terminals

Connect to the Multi-room speakers.

Speaker impedance

Connect speaker systems with a nominal impedance of between 8 Ω and 16 Ω .

㉒ FRONT SPEAKERS terminals

A: Connect to the first set of speakers.

B: Connect to the second set of speakers.

Speaker impedance:

Refer to ㉑ FRONT SPEAKERS IMPEDANCE SELECTOR switch.

NOTE:

Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctioning or breakdowns may occur when conductors come into contact with each other.

㉓ AC OUTLETS

[U.S. and Canadian models]

[SWITCHED TOTAL 100 W (0.8 A) MAX]

Power supplied through these outlets is turned on and off by the receiver's POWER switch. Total electrical power consumption of connected equipment should not exceed 100 W (0.8 A).

[UNSWITCHED 100 W (0.8 A) MAX]

Power flows continually to this outlet, regardless of whether the receiver is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 100 W (0.8 A).

[Multi-voltage model]

SWITCHED TOTAL 100 W MAX

Power supplied through these outlets is turned on and off by the receiver's POWER switch. Total electrical power consumption of connected equipment should not exceed 100 W.

UNSWITCHED 100 W MAX

Power flows continually to this outlet, regardless of whether the receiver is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 100 W.

NOTE:

- *This unit should be disconnected by removing the power plug from the wall socket when not in regular use, e.g. when on vacation.*
- *Do not connect appliances with high power consumption such as heaters, irons, or television sets to these AC OUTLETS in order to avoid overheating and fire risk.*

This can cause the receiver to malfunction.

CAUTION:

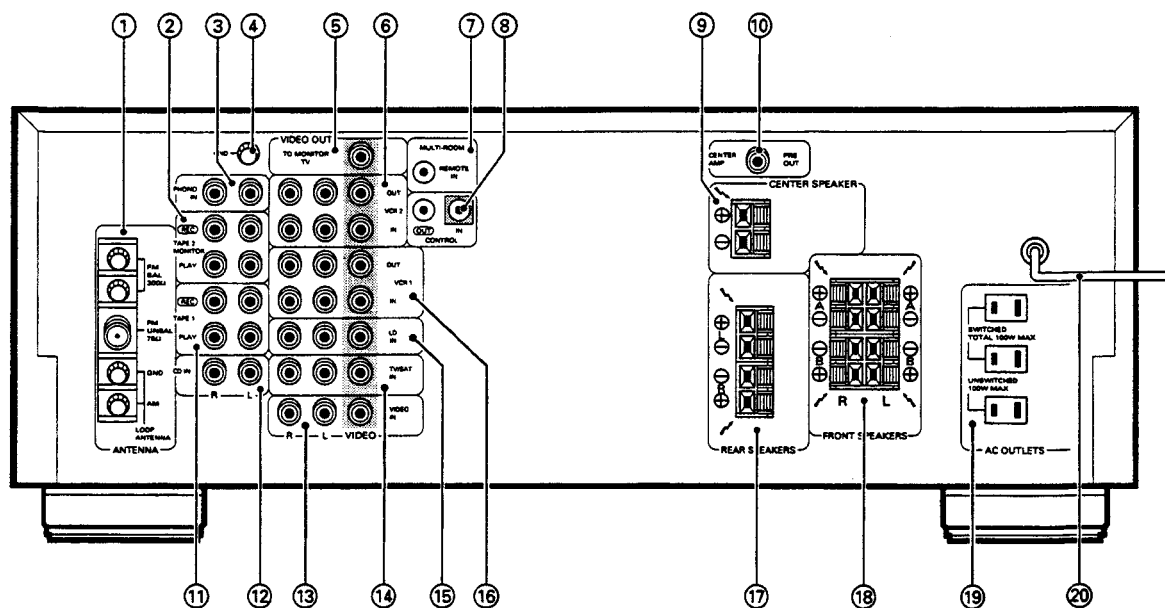
DO NOT CONNECT MONITOR OR TV SET.

㉔ Power cord

VSX-D903S, VSX-D933S, VSX-53, VSX-D703S, VSX-D613S, VSX-D603S, VSX-D633S

■ FOR VSX-D703S AND VSX-D603S MODELS

•Illustration shows VSX-D603S U.S. model.



① FM/AM ANTENNA terminals

Use these antenna terminals for reception of normal FM and AM broadcasts.

② TAPE 2 MONITOR jacks

Connect the second cassette deck to these jacks.

Connecting for Recording

The tape recording jack (REC) on the cassette deck should be connected to the REC side of the TAPE 2 MONITOR jack on the receiver with a pin plug connecting cord.

Connecting for Playback

Connect the TAPE PLAY jack on the cassette deck to the PLAY side of the TAPE 2 MONITOR jack on the receiver with a pin plug connecting cord.

③ PHONO input jacks

Connect to the output cables from a turntable.

④ GND terminal

Connect the turntable ground lead to this terminal.

⑤ VIDEO OUT (TO MONITOR TV) jack

Connect to monitor TV or to TV sets with video input terminals for watching program materials from a VCR 1, 2 or LD player connected to this unit.

⑥ VCR 2 jacks

[VIDEO OUT]

When copying program material from the video component connected to the VCR 1 or LD jacks, connect to the VIDEO INPUT jacks of the VCR used for recording.

[AUDIO OUT (L, R)]

When copying program materials from the video component connected to the VCR 1 or LD jacks, or when recording music from an audio component source, connect to the AUDIO INPUT jacks of the VCR used for recording.

[VIDEO IN]

When monitoring the video image from a VCR used for copying, connect its VIDEO OUTPUT jacks here.

[AUDIO IN (L, R)]

When monitoring the audio channel from a VCR used for copying, connect its AUDIO OUTPUT jacks here.

⑦ MULTI-ROOM REMOTE IN jack

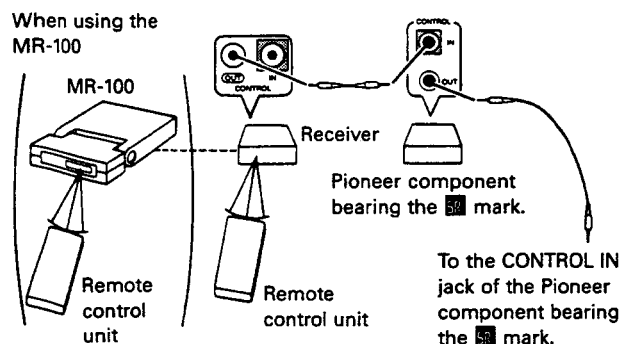
Connect to the separately sold MR-100 Multi-Room remote control unit.

⑧ CONTROL IN/OUT jacks

- IN** : Connect this jack to other Pioneer components (main unit or remote control unit) when using those components to control this unit.
- OUT** : Connect this jack to other Pioneer components when using the remote control of this unit to control the other components.

NOTE:

The receiver's remote sensor does not function when a plug is inserted in the IN jack. To operate, point the remote control unit at the remote sensor on the component to which the receiver's IN jack is connected.



⑨ CENTER SPEAKER terminals

Connect the center speaker to these terminals.

NOTE:

Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctions or breakdowns may occur when conductors come into contact with each other.

Use center speaker with impedance of 8 Ω to 16 Ω .

⑩ CENTER AMP PRE OUT jack

When a separate power amplifier is used to drive the surround center speaker, connect the power amplifier to this jack.

⑪ TAPE 1 jacks

Use these to connect the cassette deck.

Connecting for Recording

The tape recording jack (REC) on the cassette deck should be connected to the REC side of the TAPE 1 jack on the receiver with a pin plug connecting cord.

Connecting for Playback

Connect the PLAY jack on the cassette deck to the PLAY side of the TAPE 1 jack on the receiver with a pin plug connecting cord.

⑫ CD input jacks

Connect to the output jacks of a compact disc player.

⑬ VIDEO input jacks (VSX-D603S model only)

Connect to the output jacks of video components.

⑭ TV/SAT jacks (input)

Use these jacks if you wish to connect a TV tuner with both video and audio outputs.

[VIDEO IN]

Connect the TV tuner's VIDEO OUTPUT to this jack.

[AUDIO IN (L, R)]

Connect the TV tuner's AUDIO OUTPUT to these jacks.

⑮ LD jacks

[VIDEO IN]

When watching the video image from an LD player, connect its VIDEO OUTPUT jacks here.

[AUDIO IN (L, R)]

When playing back the audio channel from an LD player, connect its AUDIO OUTPUT jacks here.

⑯ VCR 1 jacks

[VIDEO OUT]

When copying program material from the video component connected to the VCR 2 or LD jacks, connect to the VIDEO INPUT jacks of the VCR used for recording.

[AUDIO OUT (L, R)]

When copying program material from the video component connected to the VCR 2 or LD jacks, or when recording music from an audio component source, connect to the AUDIO INPUT jacks of the VCR used for recording.

[VIDEO IN]

When monitoring the video image from a VCR used for playing, connect its VIDEO OUTPUT jacks here.

[AUDIO IN (L, R)]

When monitoring the audio channel from a VCR used for playing, connect its AUDIO OUTPUT jacks here.

⑰ REAR SPEAKERS terminals

Connect the rear speakers to these terminals.

NOTE:

Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctions or breakdowns may occur when conductors come into contact with each other.

Use rear speakers with impedance of 8 Ω to 16 Ω .

⑱ FRONT SPEAKERS terminals

A: Connect to the first set of speakers.

B: Connect to the second set of speakers.

NOTE:

Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctions or breakdowns may occur when conductors come into contact with each other.

Use speakers with impedance of 8 Ω to 16 Ω .

⑲ AC OUTLETS

[SWITCHED TOTAL 100 W (0.8 A) MAX]

Power supplied through these outlets is turned on and off by the receiver's POWER switch. Total electrical power consumption of connected equipment should not exceed 100 W (0.8 A).

[UNSWITCHED 100 W (0.8 A) MAX]

Power flows continually to this outlet, regardless of whether the receiver is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 100 W (0.8 A).

The equipment should be disconnected by removing the power plug from the wall socket when not in regular use, e.g. when on vacation.

NOTE:

- This unit should be disconnected by removing the power plug from the wall socket when not in regular use, e.g. when on vacation.
 - Do not connect appliances with high power consumption such as heaters, irons, or television sets to these AC OUTLETS in order to avoid overheating and fire risk.
- This can cause the receiver to malfunction.

CAUTION:

DO NOT CONNECT MONITOR OR TV SET.

⑳ Power cord

13. SPECIFICATIONS

Amplifier section

Continuous average power output of 130 watts* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.05 % total harmonic distortion (front).**

Continuous Power Output (When using SURROUND MODE)	
(Rear only driven)	50 W (1 kHz, 0.8 %, 8 Ω)
(Front and Center driven)	
Front	100 W + 100 W (1 kHz, 0.8 %, 8 Ω)
Center	100 W (1 kHz, 0.8 %, 8 Ω)
Dynamic Power (2 Ω /4 Ω)	300 W/290 W
Input (Sensitivity/Impedance)	
PHONO MM	2.8 mV/47 k Ω
CD, TAPE 1, TAPE 2, LD, VCR 1, VCR 2, VIDEO, TV/SAT	200 mV/47 k Ω
Phono Overload Level (T.H.D. 0.1 %, 1 kHz)	
PHONO MM	100 mV
Frequency Response	
PHONO MM	20 Hz to 20,000 Hz $\pm$ 0.3 dB
CD, TAPE 1, TAPE 2, LD, VCR 1, VCR 2, VIDEO, TV/SAT	5 Hz to 100,000 Hz $\pm$ 3 dB
Output (Level/Impedance)	
TAPE 1 REC, TAPE 2 REC	200 mV/2.2 k Ω
VCR 1 OUT, VCR 2 OUT	200 mV/2.2 k Ω
Tone Control	
BASS	$\pm$ 8 dB (150 Hz)
TREBLE	$\pm$ 8 dB (10 kHz)
SUPER BASS	$\pm$ 8 dB (80 Hz)
Signal-to-Noise Ratio (IHF, short circuited, A network)	
PHONO MM	76 dB
CD, TAPE 1, TAPE 2, LD, VCR 1, VCR 2, TV/SAT, VIDEO	97 dB
Signal-to-Noise Ratio (EIA, at 1 W 1kHz)	
PHONO MM	77 dB
CD, TAPE 1, TAPE 2, LD, VCR 1, VCR 2, TV/SAT, VIDEO	80 dB

* Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifier.

** Measured by Audio Spectrum Analyzer.

VIDEO Section

Input (Sensitivity/Impedance)	
VCR 1, VCR 2, LD, VIDEO	1 Vp-p/75 Ω
Output (Level/Impedance)	
VCR 1, VCR 2, MONITOR	1 Vp-p/75 Ω
Frequency Response	
VCR 1, VCR 2, LD, VIDEO $\rightarrow$ MONITOR	5 Hz to 7 MHz $\pm$ 3 dB
Signal-to-Noise Ratio	55 dB
Cross Talk	55 dB

FM Tuner Section

Frequency Range	87.5 MHz to 108 MHz
Usable Sensitivity	Mono: 11.2 dBf, IHF (1.0 μ V/75 Ω)
50 dB Quieting Sensitivity	Mono: 16.8 dBf (1.9 μ V/75 Ω)
	Stereo: 38.6 dBf (23.3 μ V/75 Ω)
Signal-to-Noise Ratio	Mono: 80 dB (at 65 dBf)
	Stereo: 76 dB (at 85 dBf)
Distortion	Mono: 0.2 % (1 kHz)
	Stereo: 0.3 % (1 kHz)
Capture Ratio	1 dB
Alternate Channel Selectivity	65 dB (400 kHz)
Stereo Separation	45 dB (1 kHz)
Frequency Response	30 Hz to 15 kHz $\pm$ 0.5 dB
Image Interference Ratio	50 dB
IF Interference Ratio	80 dB
Antenna Input	300 Ω balanced
	75 Ω unbalanced

AM Tuner Section

Frequency Range	
With 9 kHz step	531 kHz to 1,602 kHz
With 10 kHz step	530 kHz to 1,700 kHz
Sensitivity (IHF, Loop antenna)	300 μ V/m
Selectivity	25 dB
Signal-to-Noise Ratio	50 dB
Antenna	Loop antenna

Miscellaneous

Power Requirements	
U.S. Model	AC 120 V, 60 Hz
Multi-voltage Model	AC 110 V/120 — 127 V/220 V/240 V (Switchable), 50/60 Hz
Power Consumption	
U.S. Model	420 W
Multi-voltage Model	950 W
In Standby Condition	3 W
AC Outlets	
U.S. Model	
SWITCHED x 2	TOTAL 100 W (0.8 A) MAX
UNSWITCHED x 1	100 W (0.8 A) MAX
Multi-voltage Model	
SWITCHED x 2	TOTAL 100 W MAX
UNSWITCHED x 1	100 W MAX

Dimensions

VSX-D903S Model	420(W) $\times$ 162(H) $\times$ 425(D)mm
	16-9/16(W) $\times$ 6-3/8(H) $\times$ 16-3/4(D)in
VSX-53 Model	440(W) $\times$ 162(H) $\times$ 425(D)mm
	17-5/16(W) $\times$ 6-3/8(H) $\times$ 16-3/4(D)in
VSX-D703S and VSX-D603S Models	420(W) $\times$ 162(H) $\times$ 414(D)mm
	16-9/16(W) $\times$ 6-3/8(H) $\times$ 16-5/16(D)in

Weight (without package)

VSX-D903S Model	13.0kg(28 lb 11oz)
VSX-53 Model	12.7kg(28 lb)
VSX-D703S Model	12.3kg(27 lb 2oz)
VSX-D603S Model	12.2kg(26 lb 14oz)

Furnished Parts

FM T-type Antenna	1
AM Loop Antenna	1
Dry Cell Batteries	2
Remote Control Unit	1
Operating Instructions	1

NOTE:

Specifications and the design are subject to possible modifications without notice due to improvements.

